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## *Regionalism in rural settlement in the Pennines of north-west Yorkshire*

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WALFORD    NELSON    TEALE

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REGIONALISM   IN   RURAL   SETTLEMENT   IN   THE   PENNINES  
OF   NORTH   WEST   YORKSHIRE

(MAPS)

THESIS   FOR   THE   DEGREE   OF   M. LITT.

DATE   SUBMITTED - MAY 5 TH. 1958



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## IN THE POCKET AT THE END

Section Sheet A

Section Sheet B

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Section Sheet D

Alluvium.



# FOREWORD

1. The data on which the maps are based ~~is~~ given in the Statistical Appendices referred to on the maps immediately under the number of the map.
2. Map 12 may be unfolded for comparison with any of the succeeding maps, without detaching it from the folder.
3. It should be unnecessary to extract any of the maps from the folder. Where it is desirable to have the maps side by side provision has been made for this in the arrangement of the maps and by hinging one map onto another.
4. Note 1 in Statistical Appendix 21 applies to maps 37, 42, 43, 47, 48 and 57.



SCALE 1/4 INCH TO 1 MILE  
 CONTOURS GENERALISED FROM  
 200 (see text page 2 footnote)

# GENERAL RELIEF

## DRAINAGE

traced from 200 (text page 2  
 footnote)

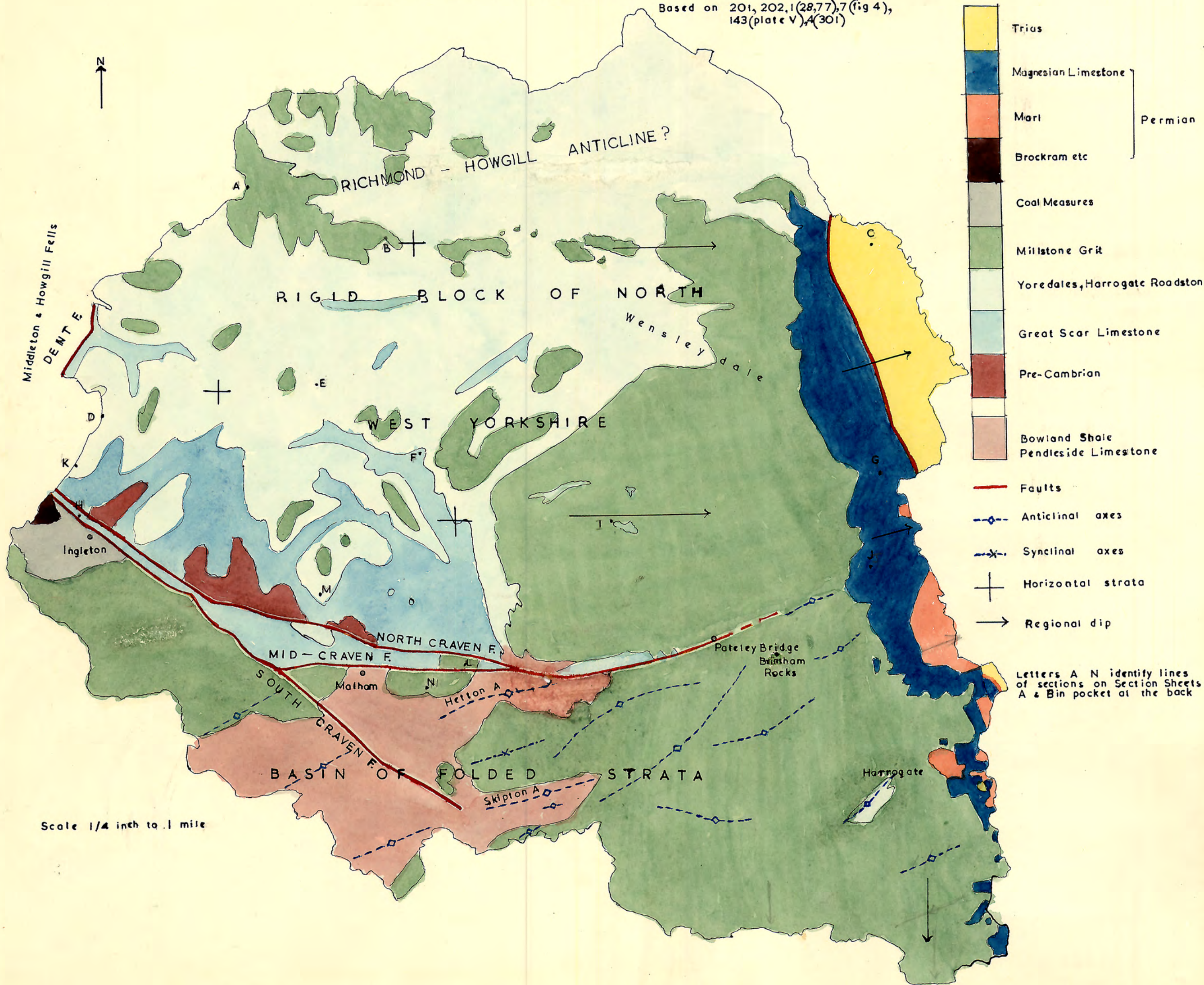


HORIZ. SCALE 1 INCH  
 TO 4 MILES  
 VERT. SCALE 1/20 INCH  
 TO 200 FEET



# GEOLOGY & STRUCTURE

Based on 201, 202, 1(28,77), 7 (fig 4),  
143 (plate V), 4 (301)



# THE LARGER PHYSIOGRAPHIC DIVISIONS





## CONTOURS &amp; ALLUVIUM INCLUDING FLUVIO-GLACIAL DEPOSITS



NOTE HOW THIS MAP REFLECTS THE  
VALLEYS SHOWN ON MAP 5 OPPOSITE

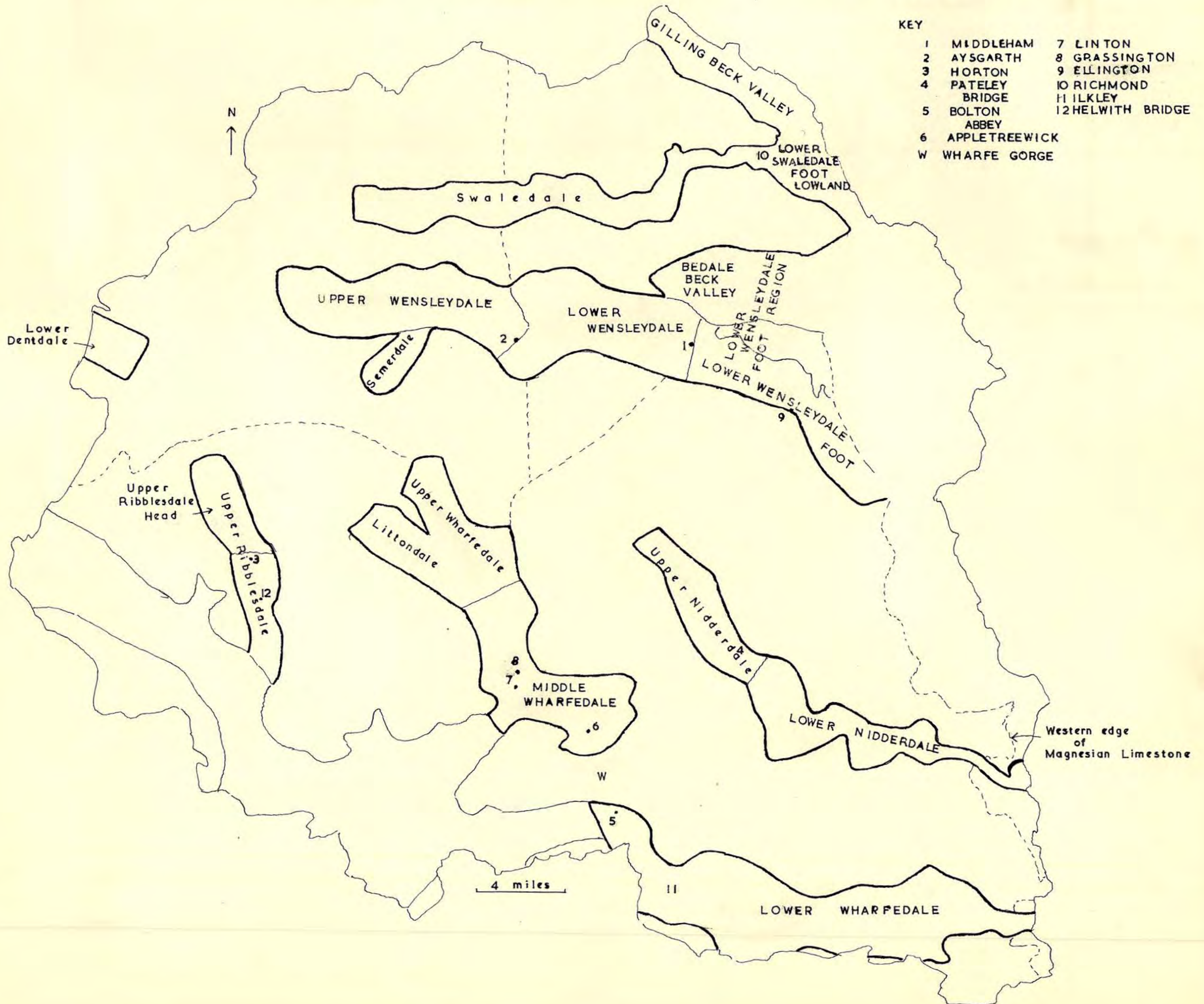
CONTOURS TRACED FROM 200.  
NUMBERS REPRESENT HUNDREDS OF  
FEET O.D.

ALLUVIUM — SEE MAP OF ALLUVIUM  
and fluvio-glacial  
deposits in the pocket  
at the back



SEE SECTION SHEET C IN POCKET

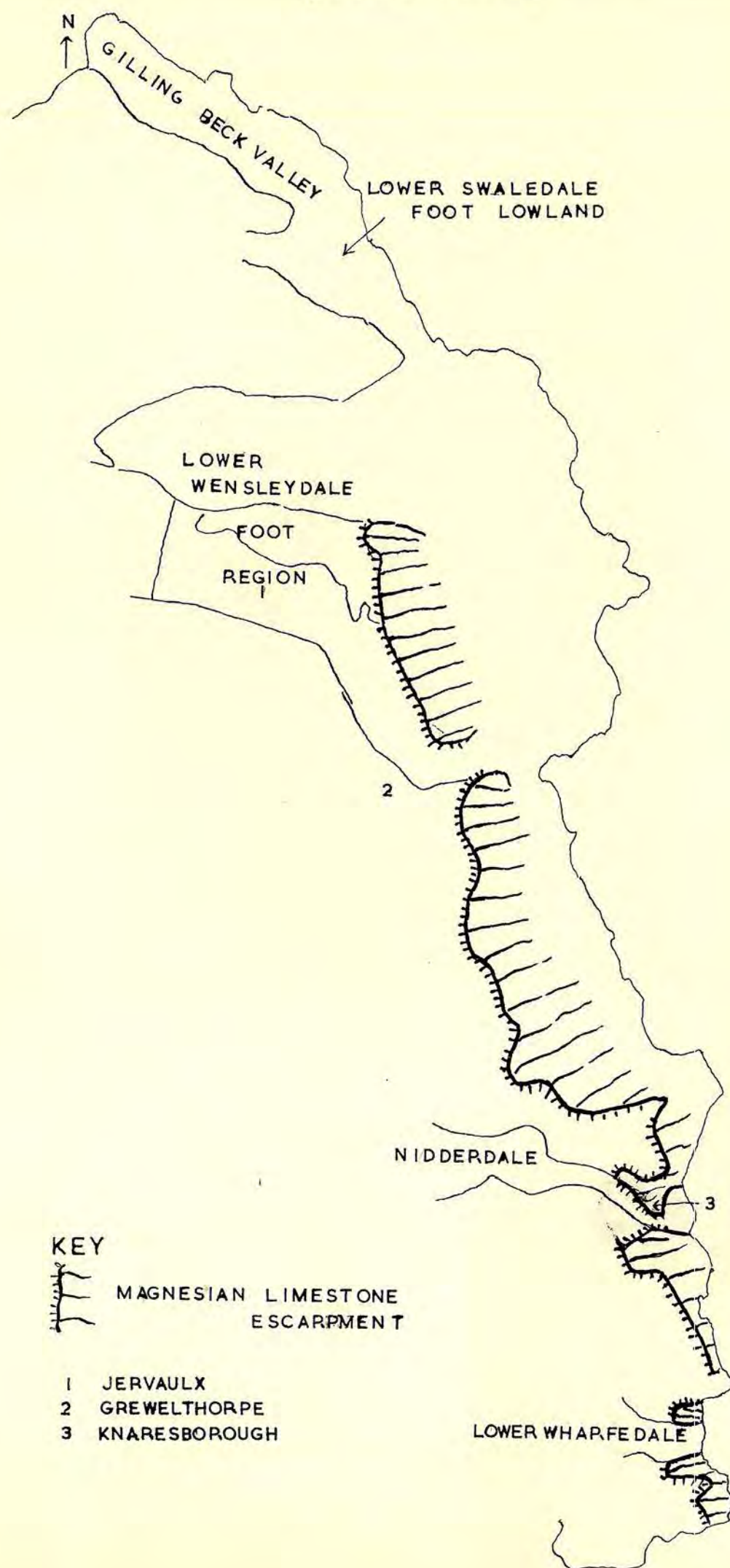
WIDER VALLEYS SHOWN BY  
LARGER LETTERING



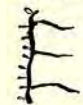


## (a) THE MAGNESIAN LIMESTONE ESCARPMENT

(See Section Sheet D)



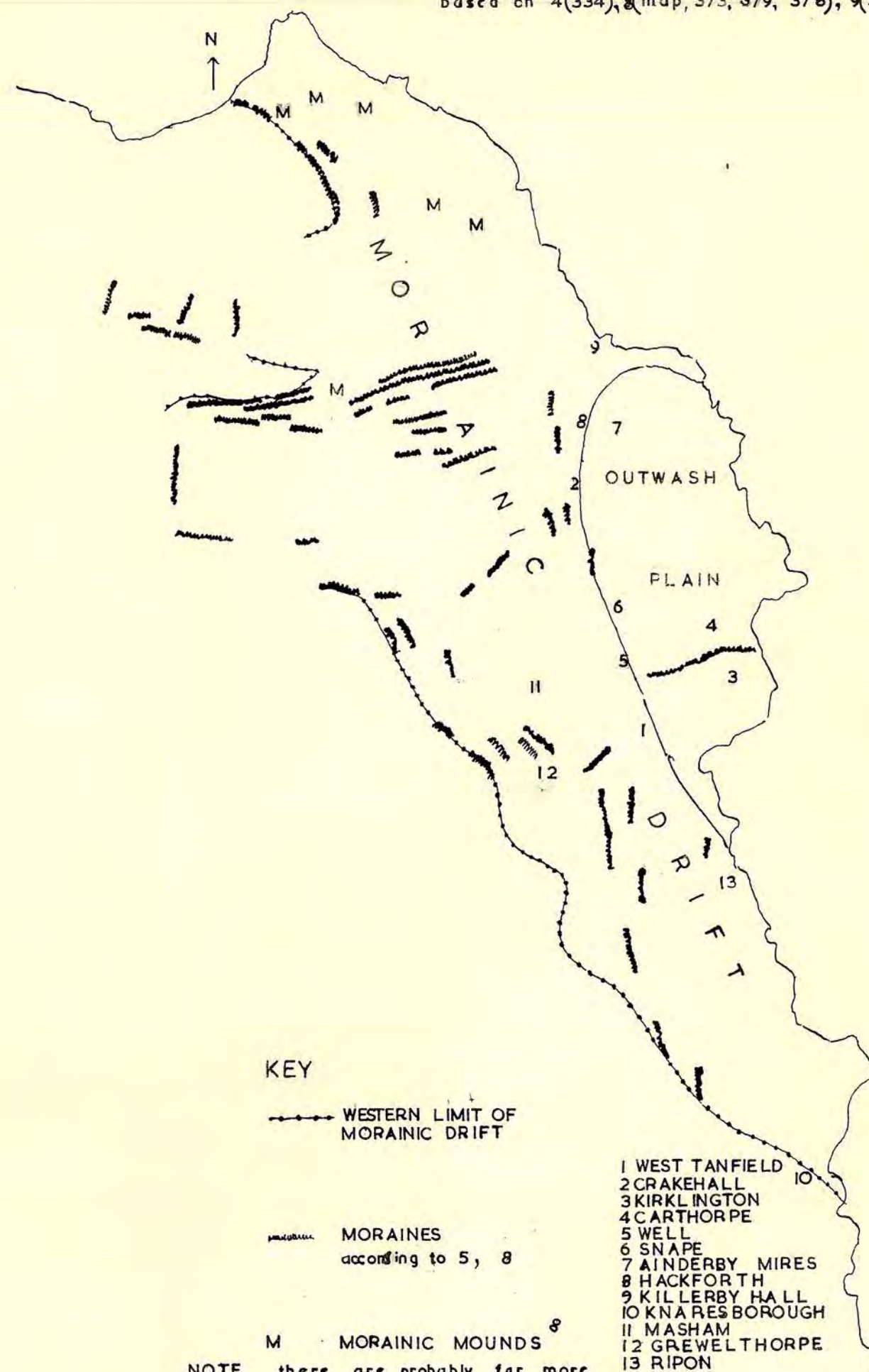
## KEY

MAGNESIAN LIMESTONE  
ESCARPMENT

- 1 JERVAULX
- 2 GREWELTHORPE
- 3 KNARESBOROUGH

## (b) THE GLACIAL DEPOSITS

based on 4(334), 8(map, 373, 379, 378), 9(368), 5



## KEY

---> WESTERN LIMIT OF  
MORAINIC DRIFT

MORAINES  
according to 5, 8

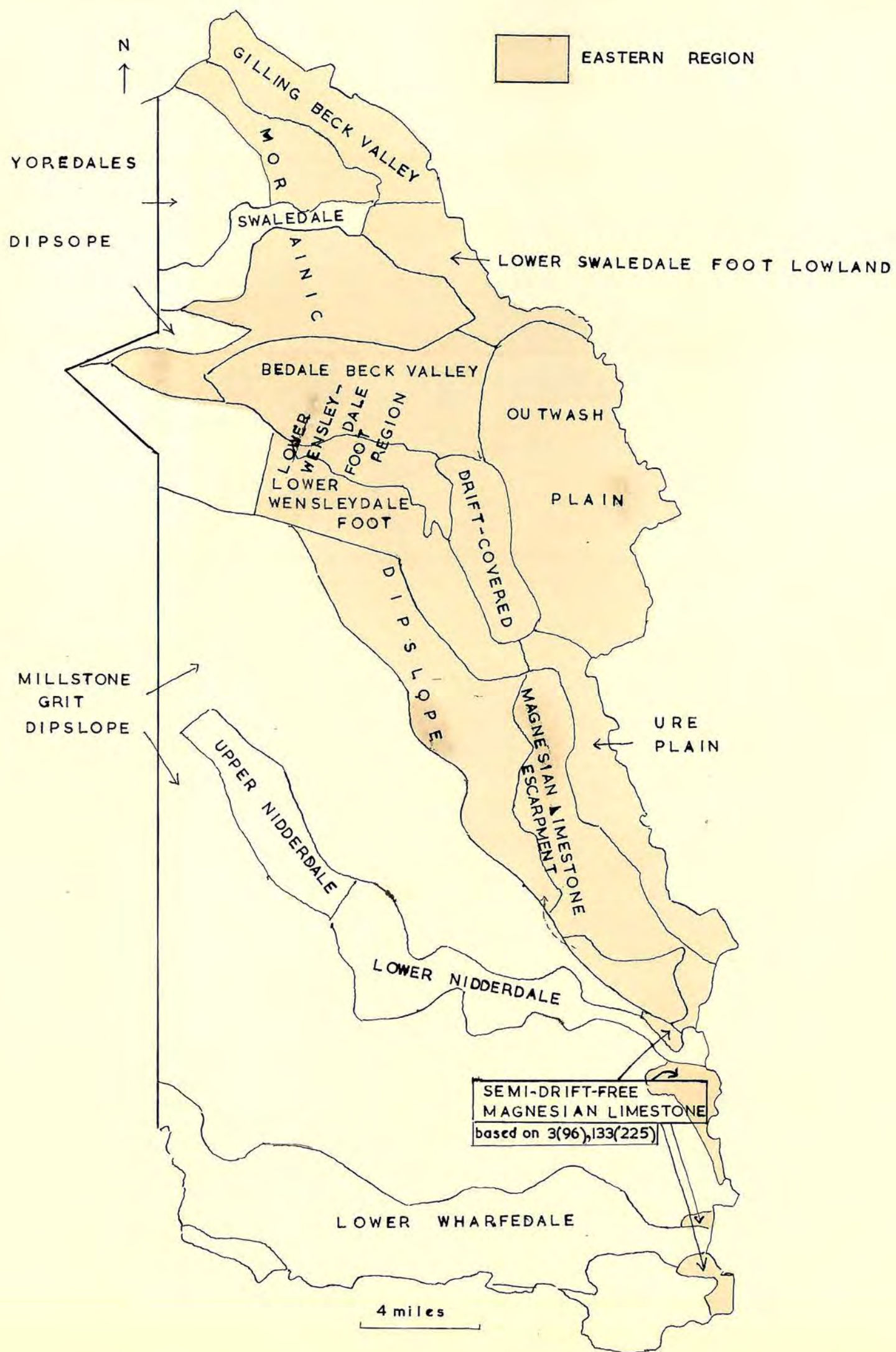
M MORAINIC MOUNDS

NOTE there are probably far more  
morainic features (lateral  
moraines or mounds) in the  
southern half of the  
morainic drift area (c.f. 4(334))

- 1 WEST TANFIELD
- 2 CRAKEHALL
- 3 KIRKLINGTON
- 4 CARTHORPE
- 5 WELL
- 6 SNAPE
- 7 AINDERBY MIRES
- 8 HACKFORTH
- 9 KILLERBY HALL
- 10 KNARESBOROUGH
- 11 MASHAM
- 12 GREWELTHORPE
- 13 RIPON

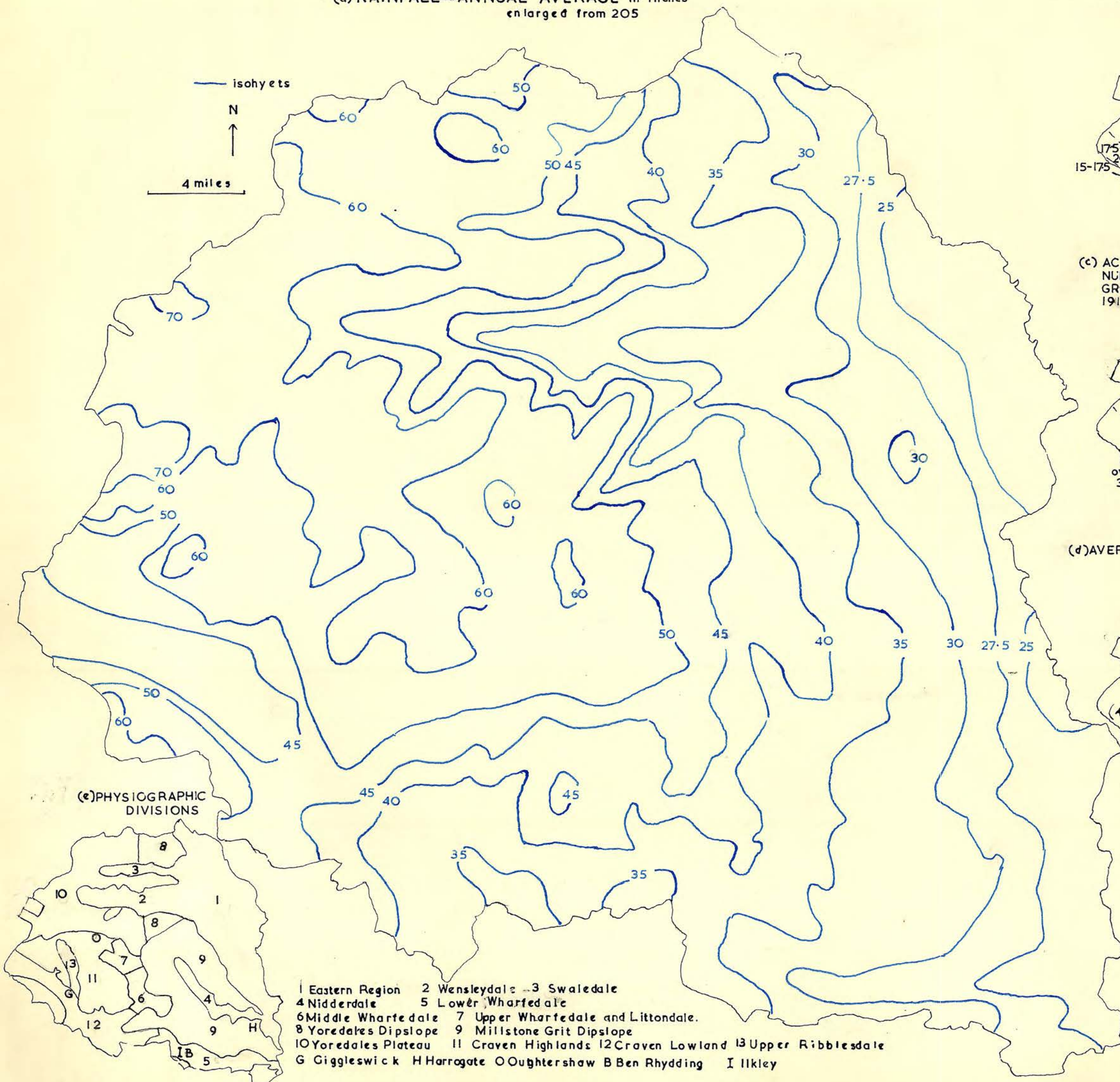
4 miles



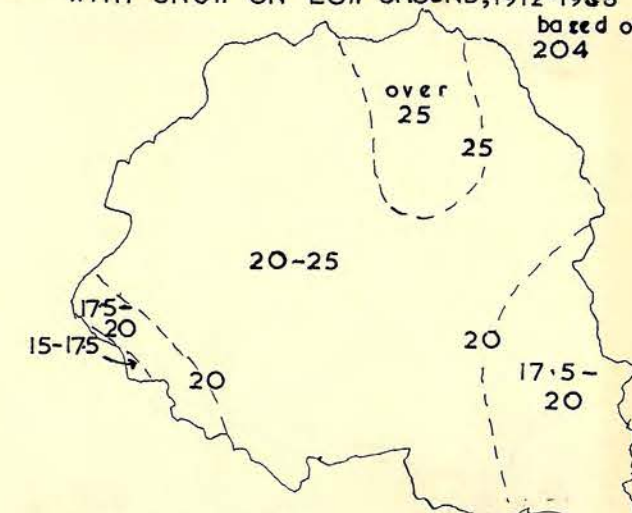




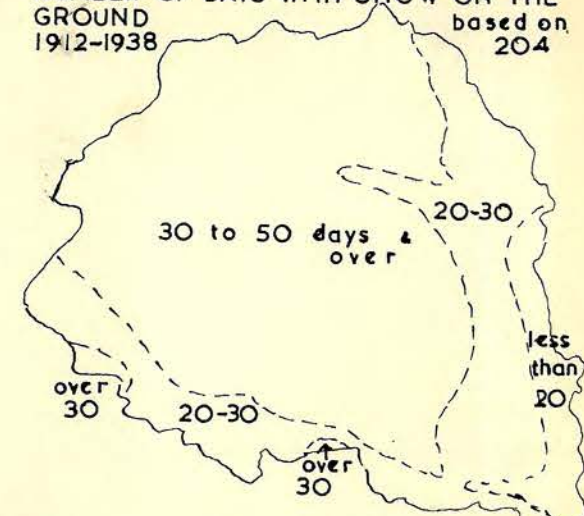
(a) RAINFALL—ANNUAL AVERAGE in inches  
enlarged from 205



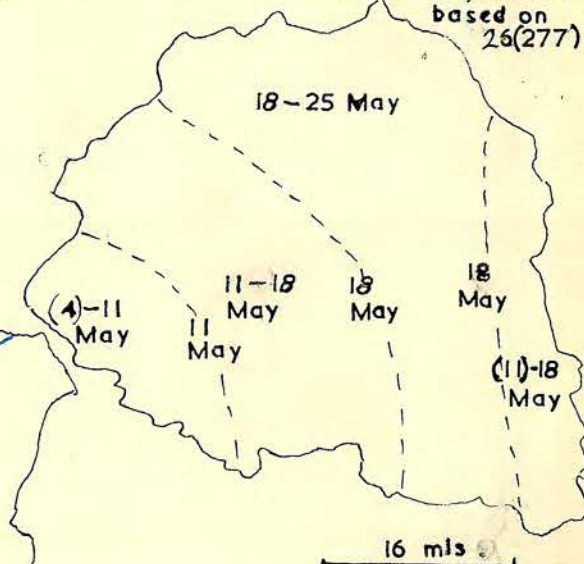
(b) AVERAGE ANNUAL NUMBER OF DAYS  
WITH SNOW ON LOW GROUND, 1912-1938  
based on 204



(c) ACTUAL SNOWFALL—AVERAGE ANNUAL  
NUMBER OF DAYS WITH SNOW ON THE  
GROUND 1912-1938  
based on 204



(d) AVERAGE FLORAL ISOPHONES, 1891-1925  
based on 26(277)



(e) PHYSIOGRAPHIC  
DIVISIONS

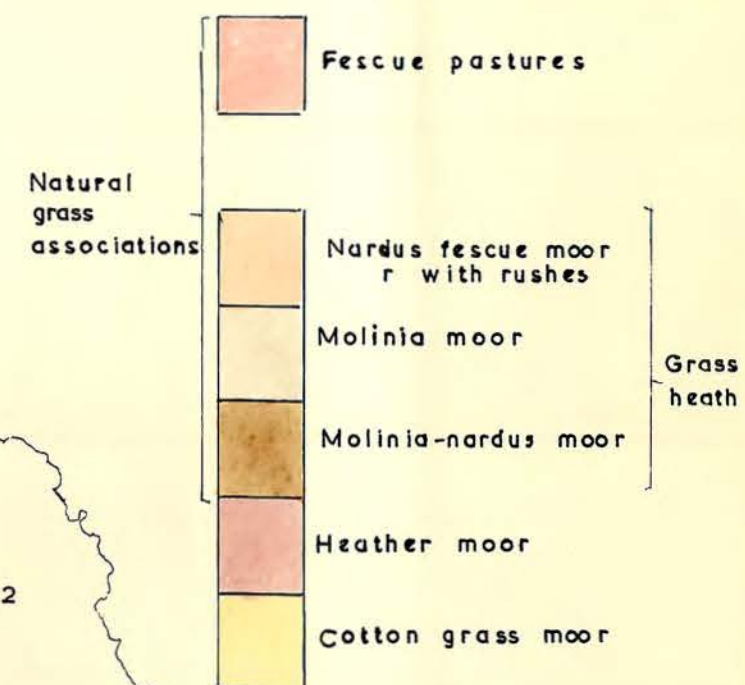
- |                      |                                   |                   |
|----------------------|-----------------------------------|-------------------|
| 1 Eastern Region     | 2 Wensleydale                     | 3 Swaledale       |
| 4 Nidderdale         | 5 Lower Wharfedale                |                   |
| 6 Middle Wharfedale  | 7 Upper Wharfedale and Littondale |                   |
| 8 Yoredales Dipslope | 9 Millstone Grit Dipslope         |                   |
| 10 Yoredales Plateau | 11 Craven Highlands               | 12 Craven Lowland |
| 13 Upper Ribblesdale |                                   |                   |
| G Giggleswick        | H Harrogate                       | O Oughtershaw     |
| B Ben Rhydding       | I Ilkley                          |                   |



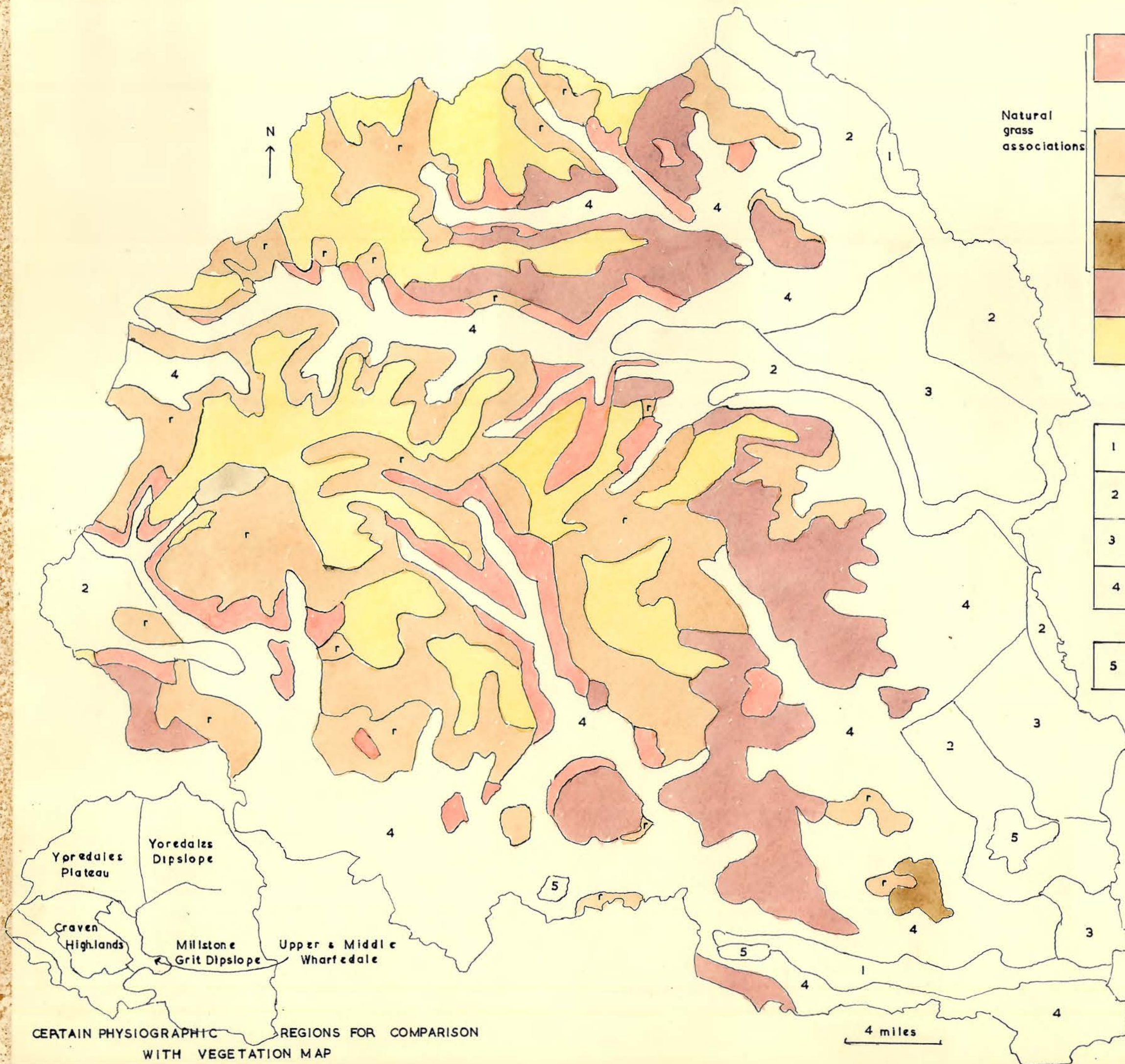
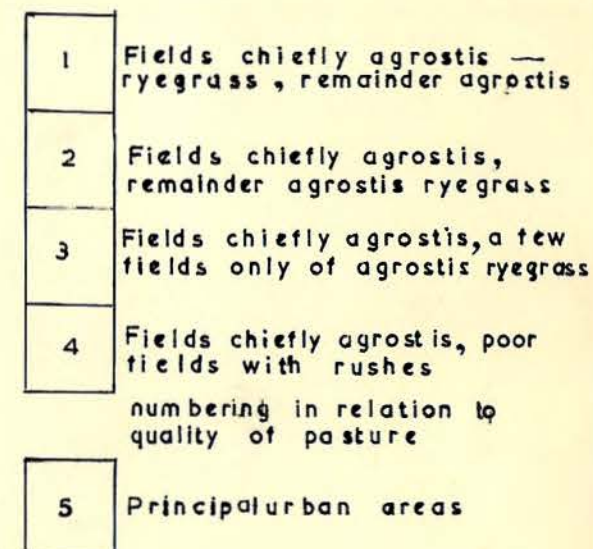
# VEGETATION

enlarged from 206

## NATURAL VEGETATION



## PERMANENT GRASS

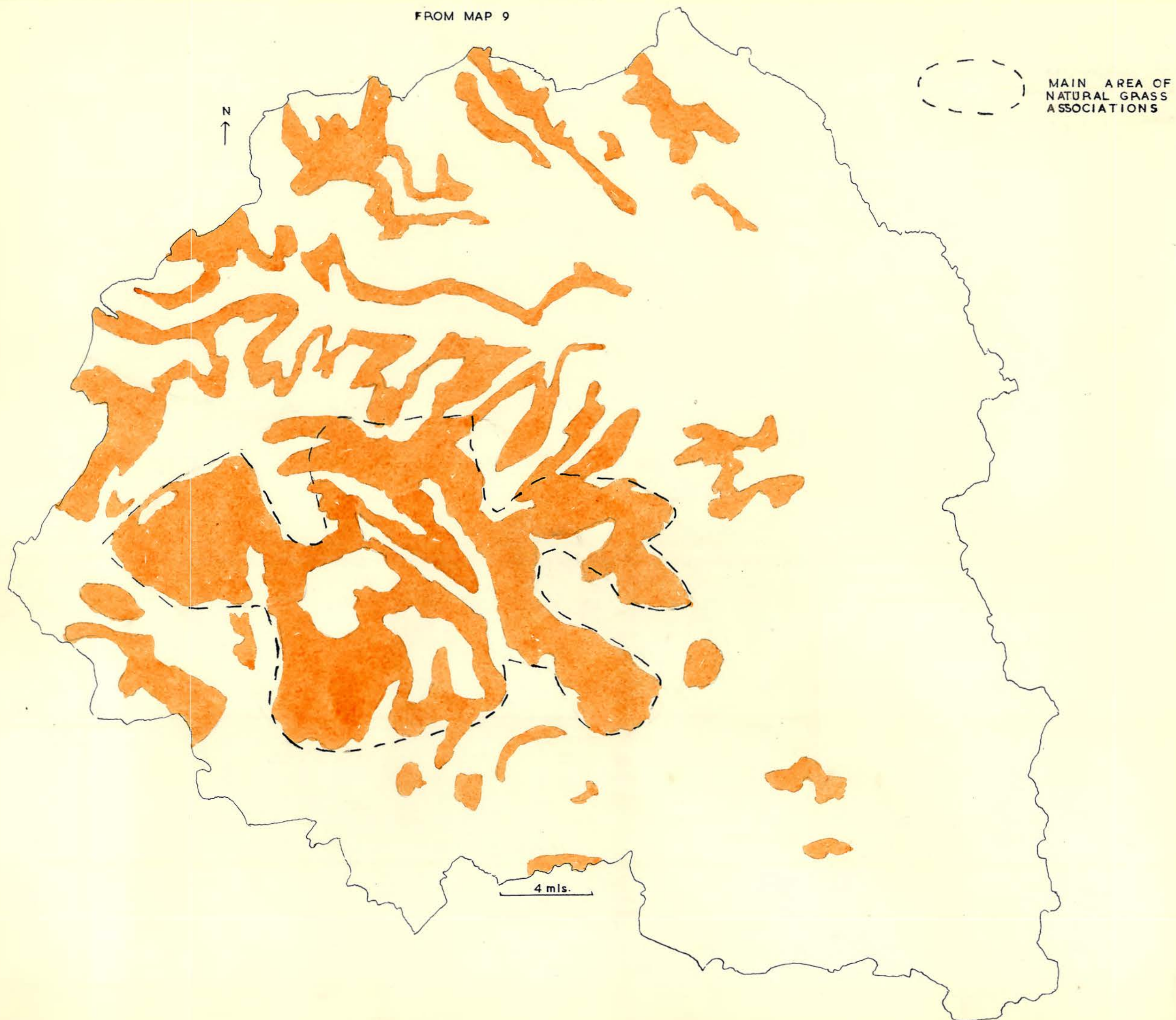


CERTAIN PHYSIOGRAPHIC REGIONS FOR COMPARISON  
WITH VEGETATION MAP



# THE DISTRIBUTION OF NATURAL GRASS ASSOCIATIONS - FESCUE & NARDUS FESCUE

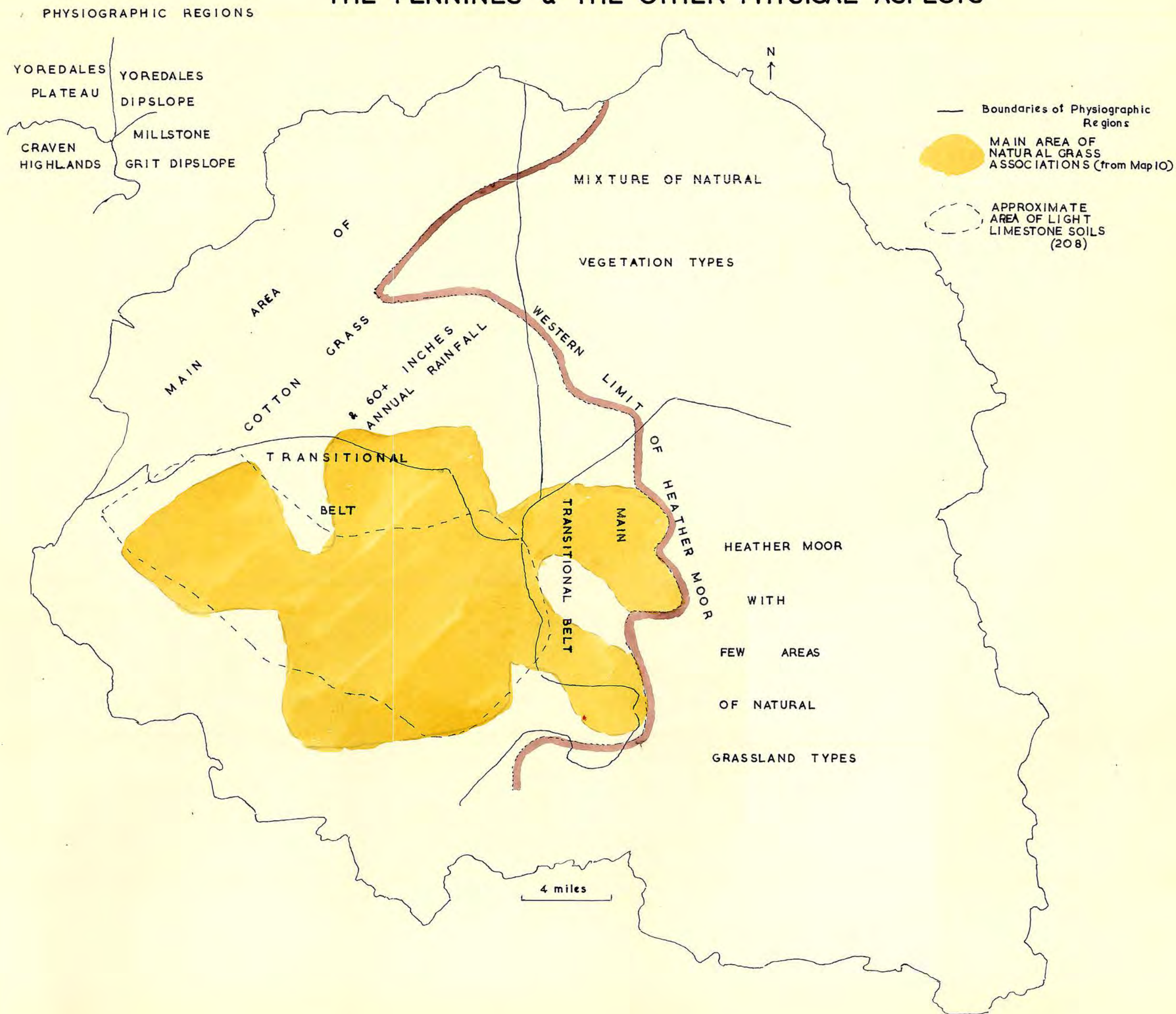
FROM MAP 9





# RELATIONS BETWEEN THE LARGER PHYSIOGRAPHIC DIVISIONS OF THE PENNINES & THE OTHER PHYSICAL ASPECTS

11

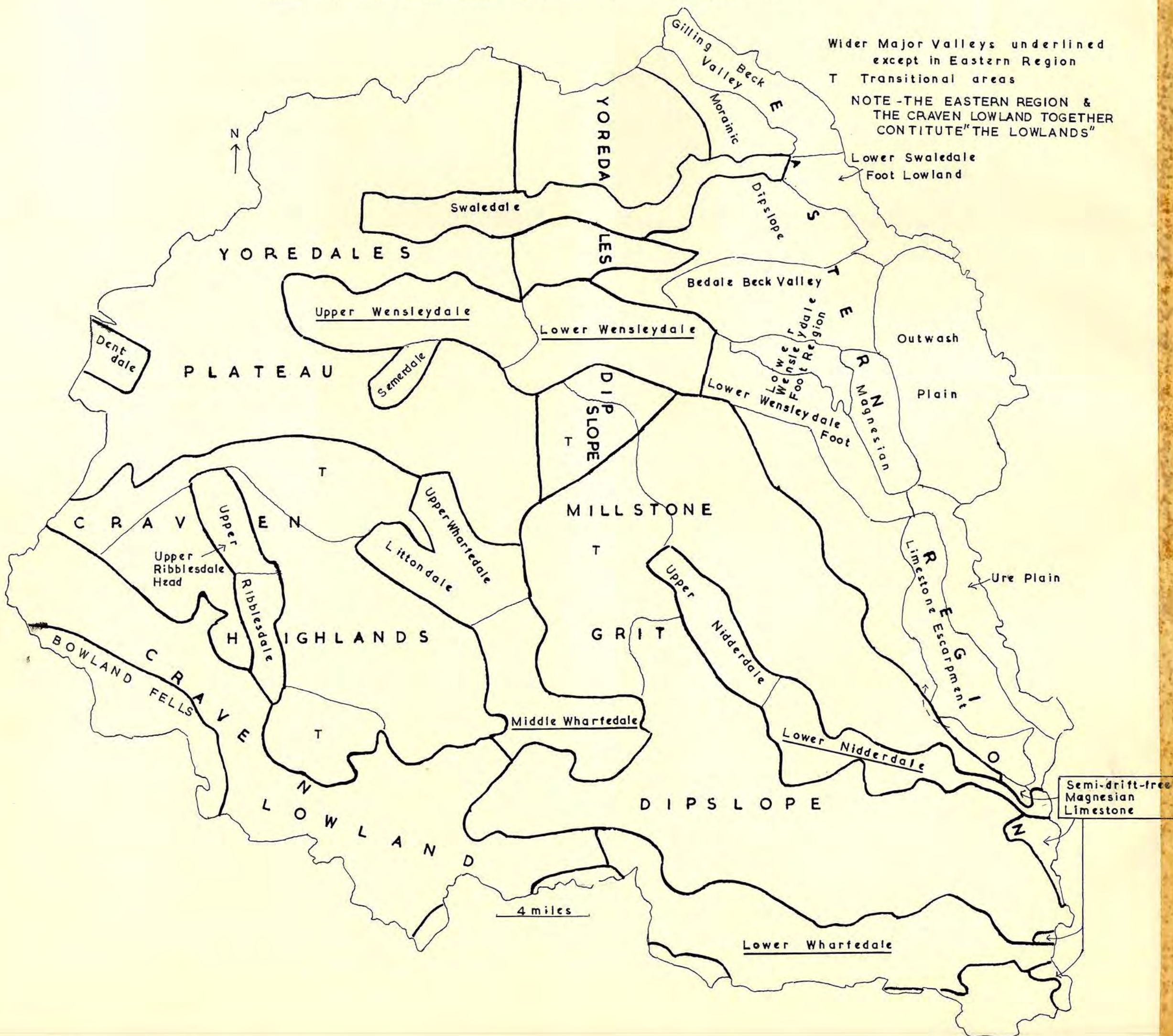




# PHYSICAL DIVISIONS

12

THIS MAP MAY BE UNFOLDED TO COMPARE WITH SUBSEQUENT MAPS





# MESOLITHIC SITES

(based on 37)

● Mesolithic sites  
— Physical boundary

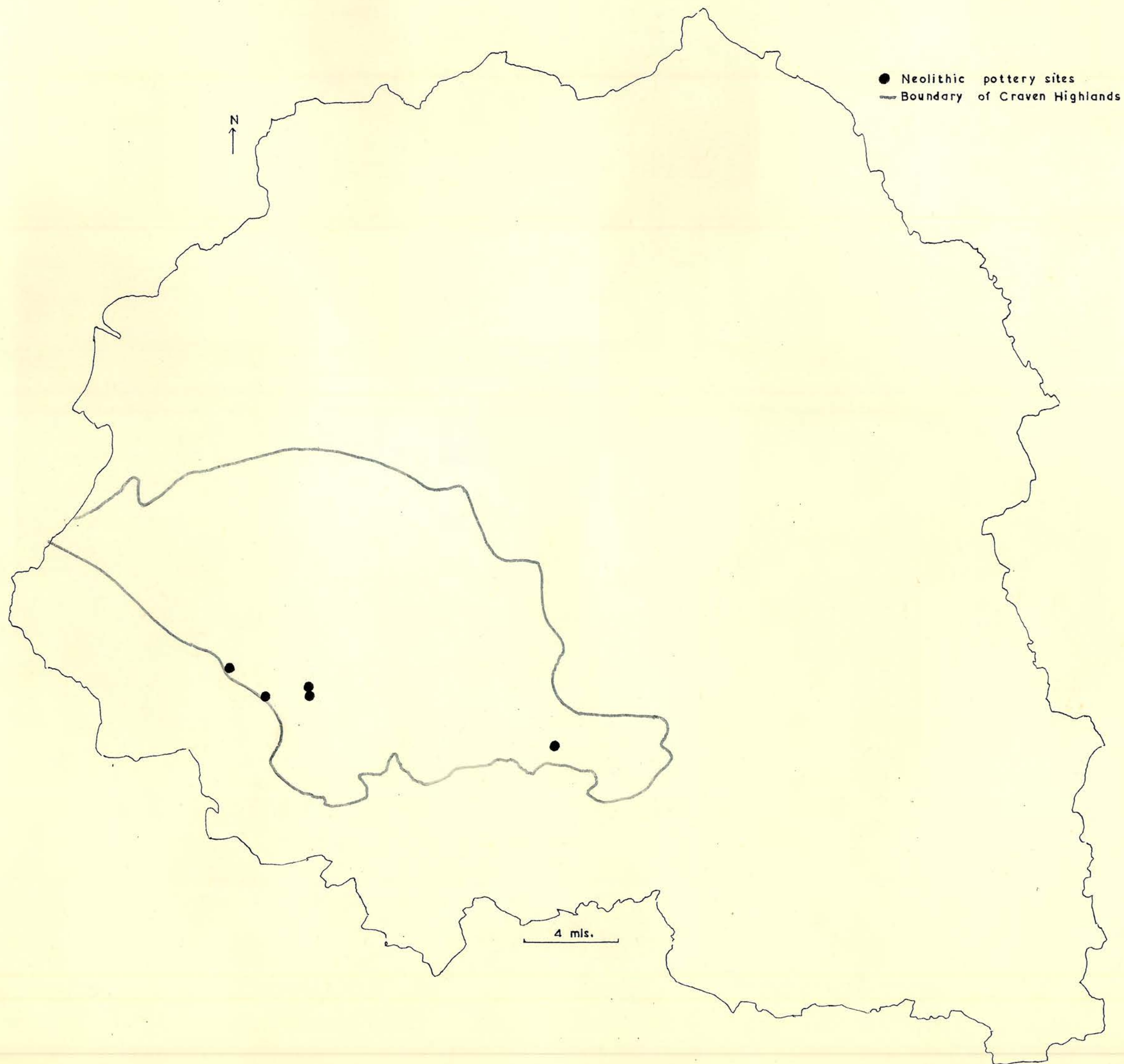




# NEOLITHIC SITES

14

STAT. APP. 3a

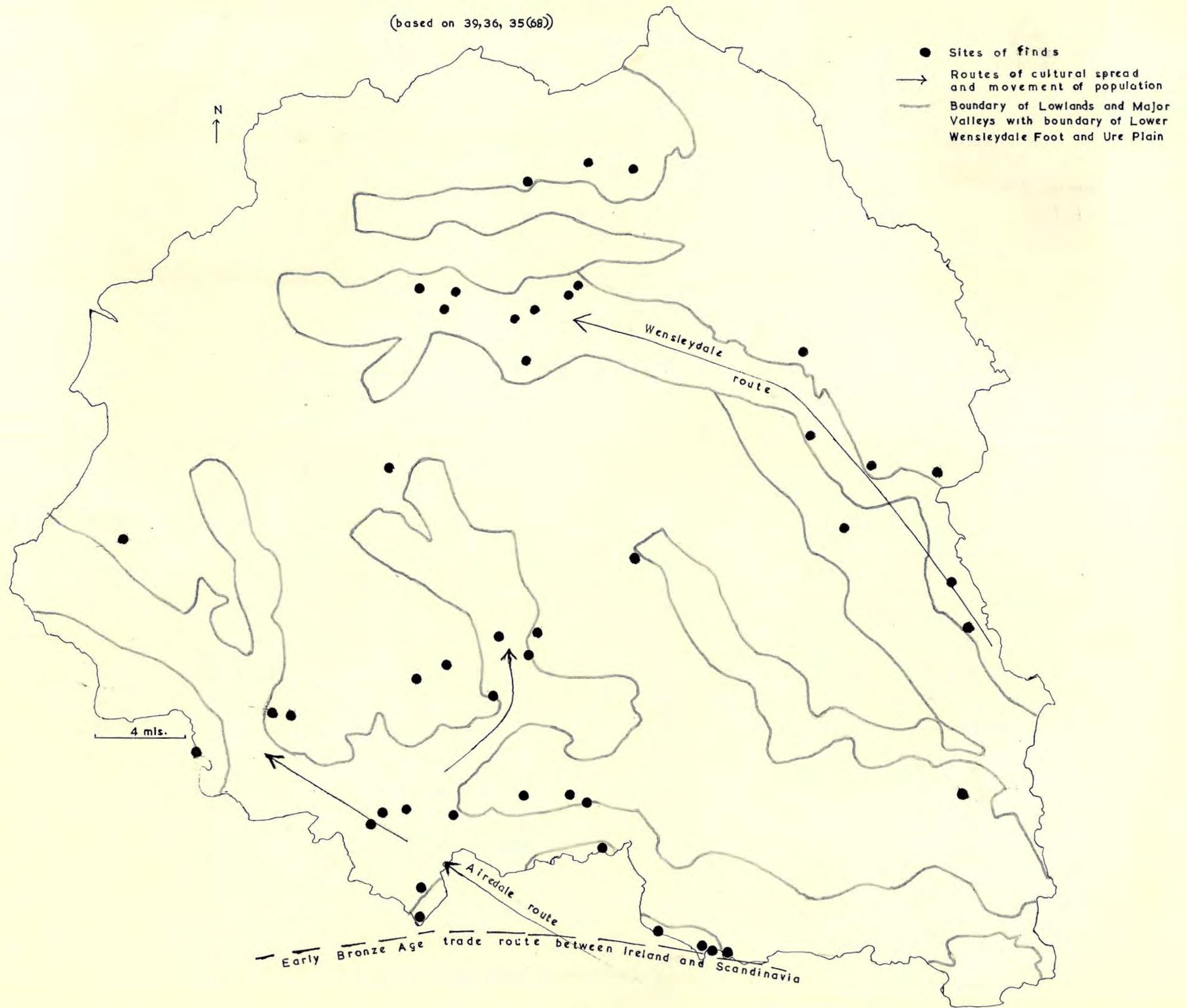




# BRONZE AGE SITES

15

(based on 39,36, 35(68))

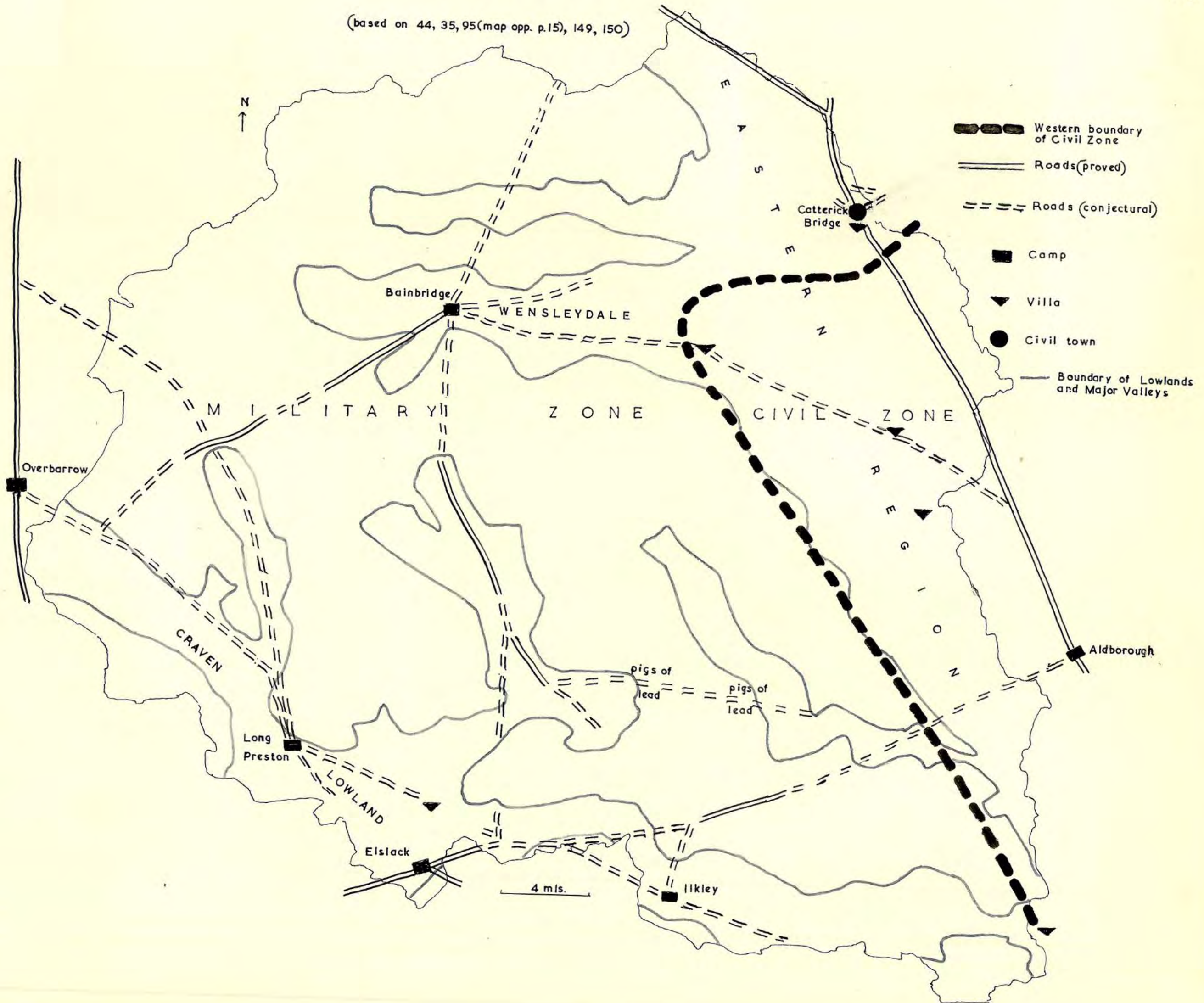




# ROMAN REMAINS

16

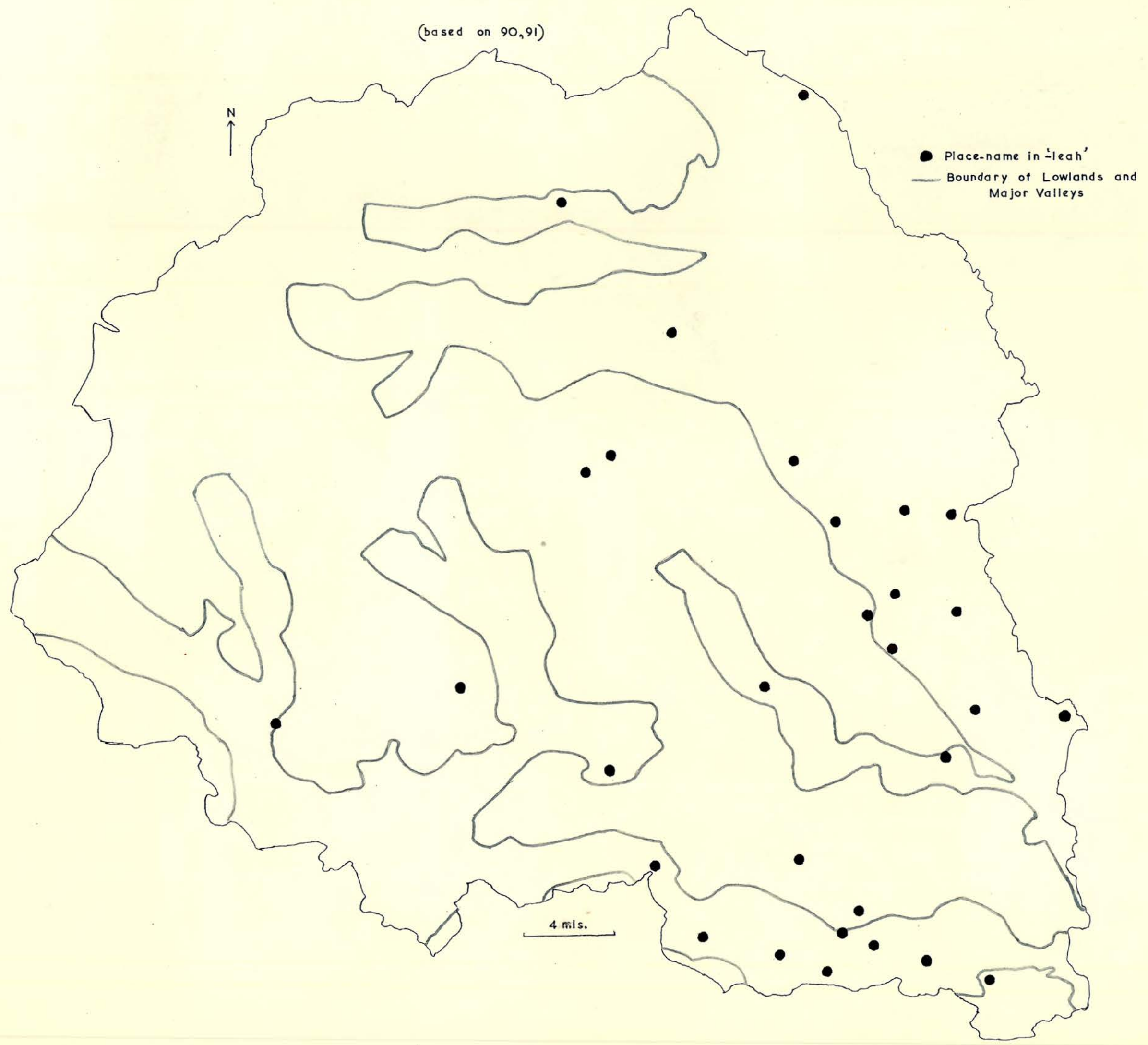
(based on 44, 35, 95 (map opp. p.15), 149, 150)





# PLACE-NAMES IN "LEAH"

(based on 90,91)



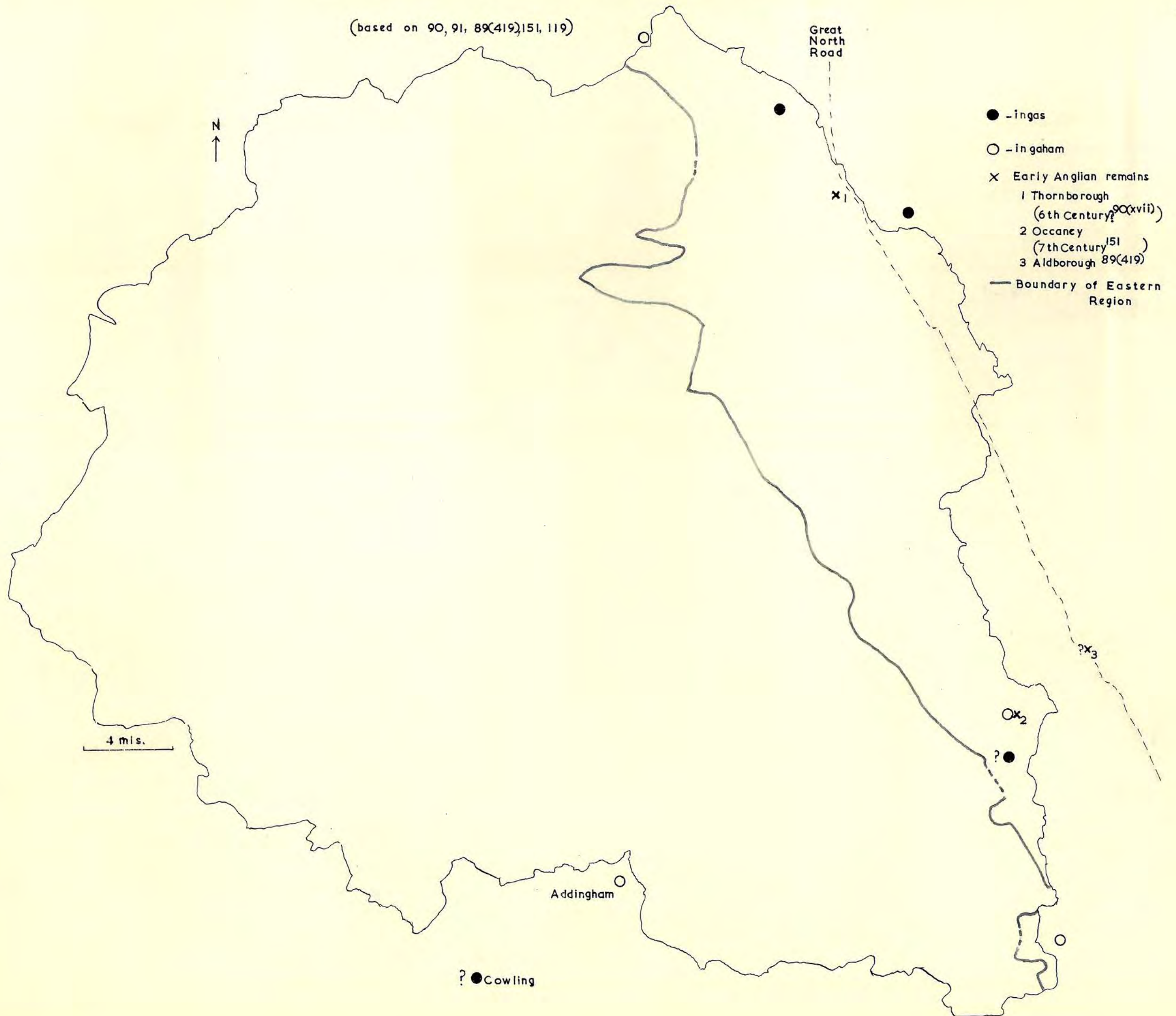


# PLACE - NAMES IN "INGAS" & "INGAHAM"

18

STAT. APR. 5

(based on 90, 91, 89(419), 151, 119)







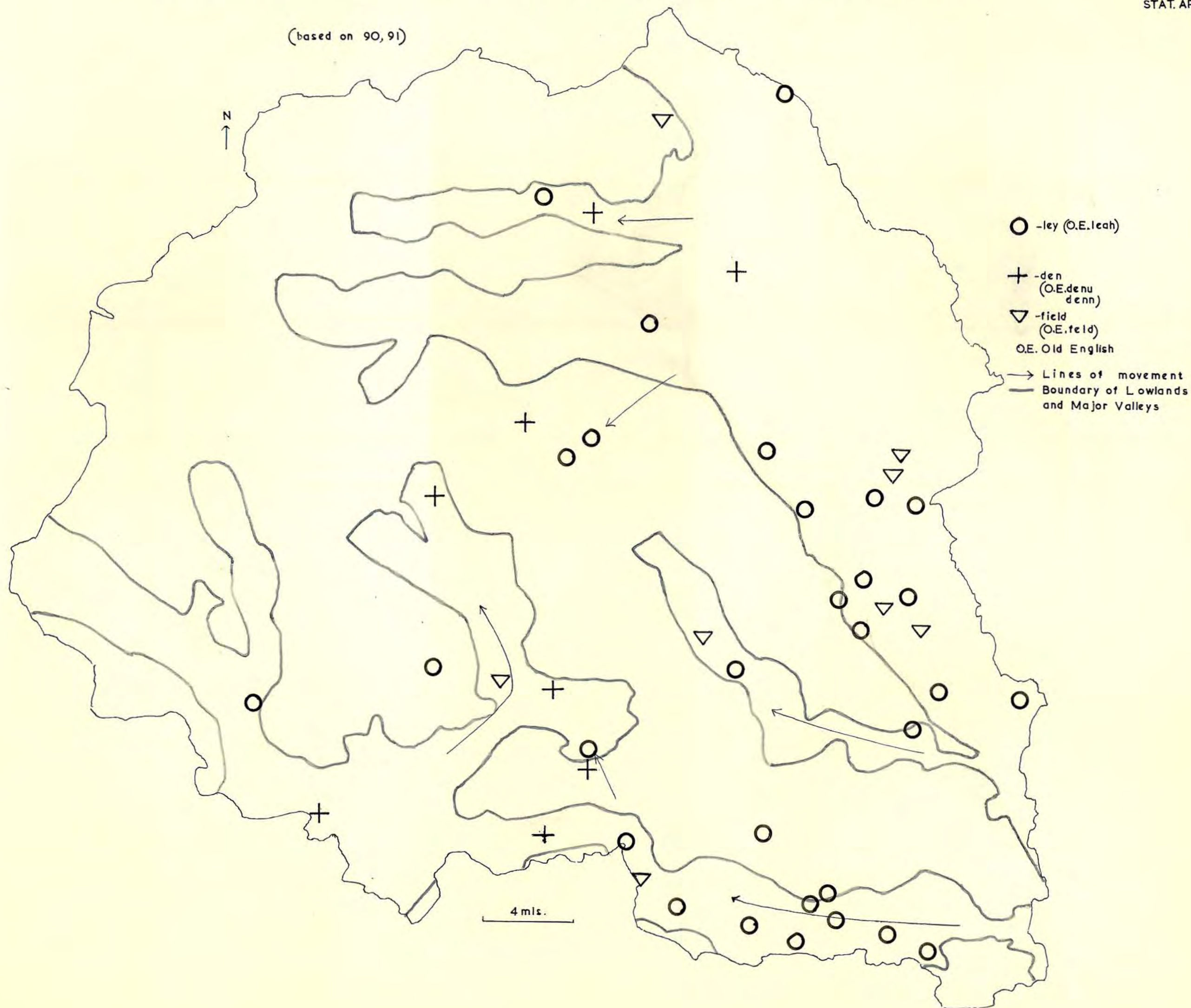


# OLD ENGLISH PLACE-NAMES OF RELATIVELY LATE ORIGIN

20

STAT. APP. 7

(based on 90, 91)





# OLD ENGLISH PLACE-NAMES: ALL TYPES

21

STAT. APP. 8

Place-names composed of a mixture of Old English and Old Norse elements are omitted from this map, except where the original place-name was Old English

(based on 90, 91)

Dots represent Old English place-names.

→ Lines of movement.

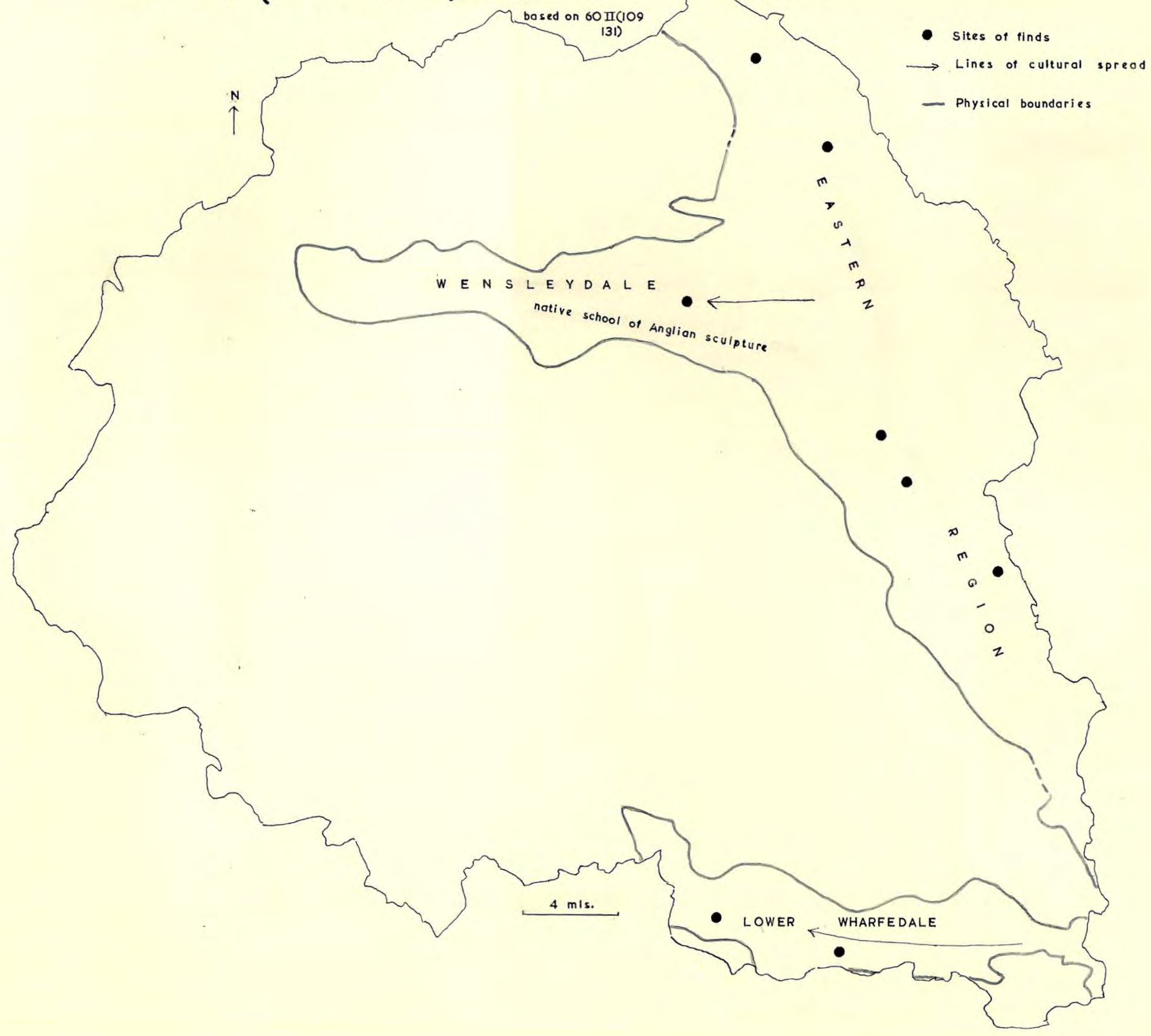
- 1 Wensleydale route
- 2 Lower Wharfedale "
- 3 Swaledale "
- 4 Nidderdale "
- 5 Lower Airedale "
- 6 Upper Wharfedale "
- 7 Upper Ribblesdale "
- 8 Cracoe Gap "
- 9 Bishopdale "
- 10 Coverdale "
- 11 Wharfe gorge "

— Boundary of Lowlands and Major Valleys





# ANGLIAN (PRE-DANISH) SCULPTURED STONES



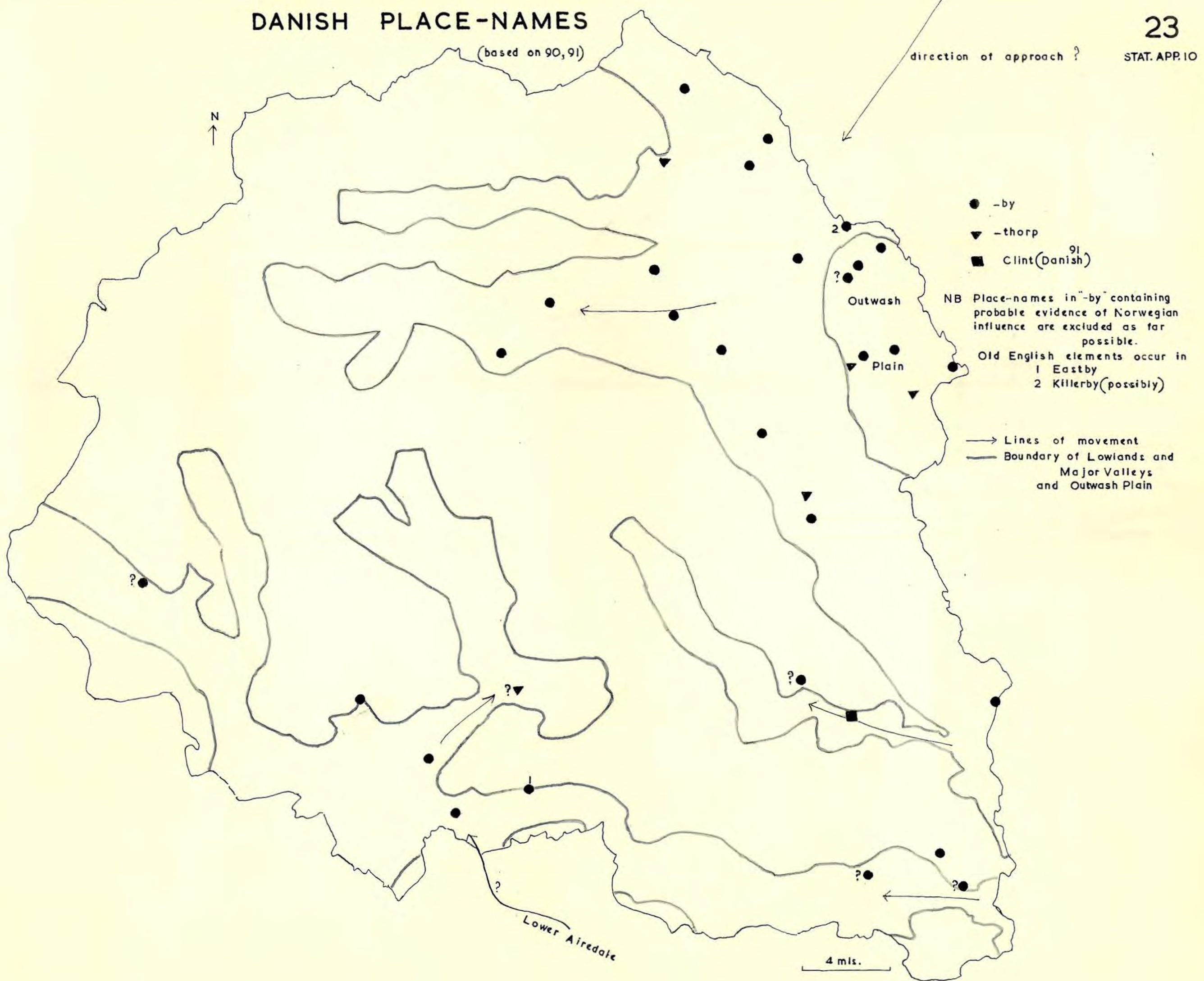


# DANISH PLACE-NAMES

(based on 90, 91)

23

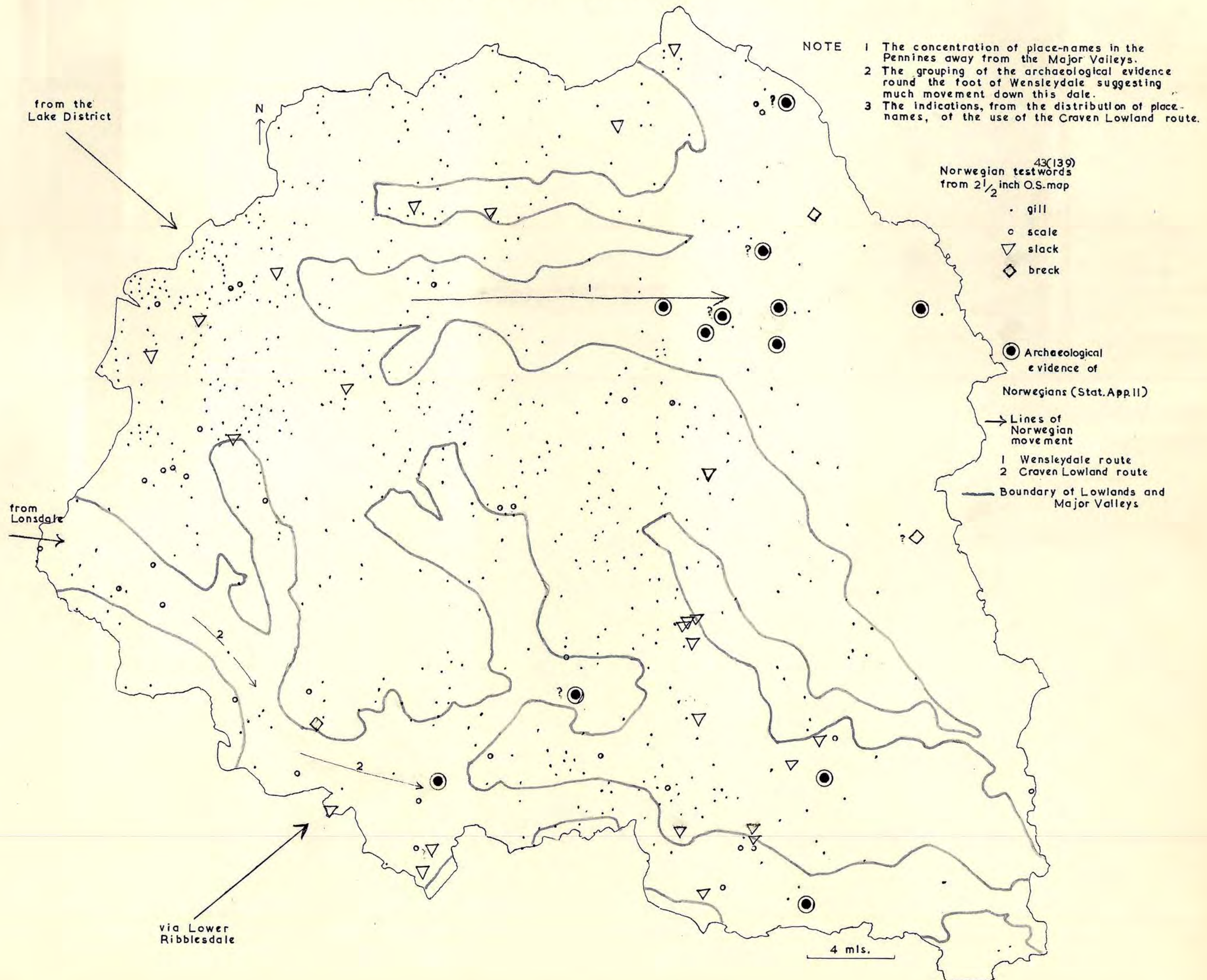
STAT. APP. 10





# NORWEGIAN TESTWORDS AND OTHER EVIDENCE OF NORWEGIAN INFLUENCE

24



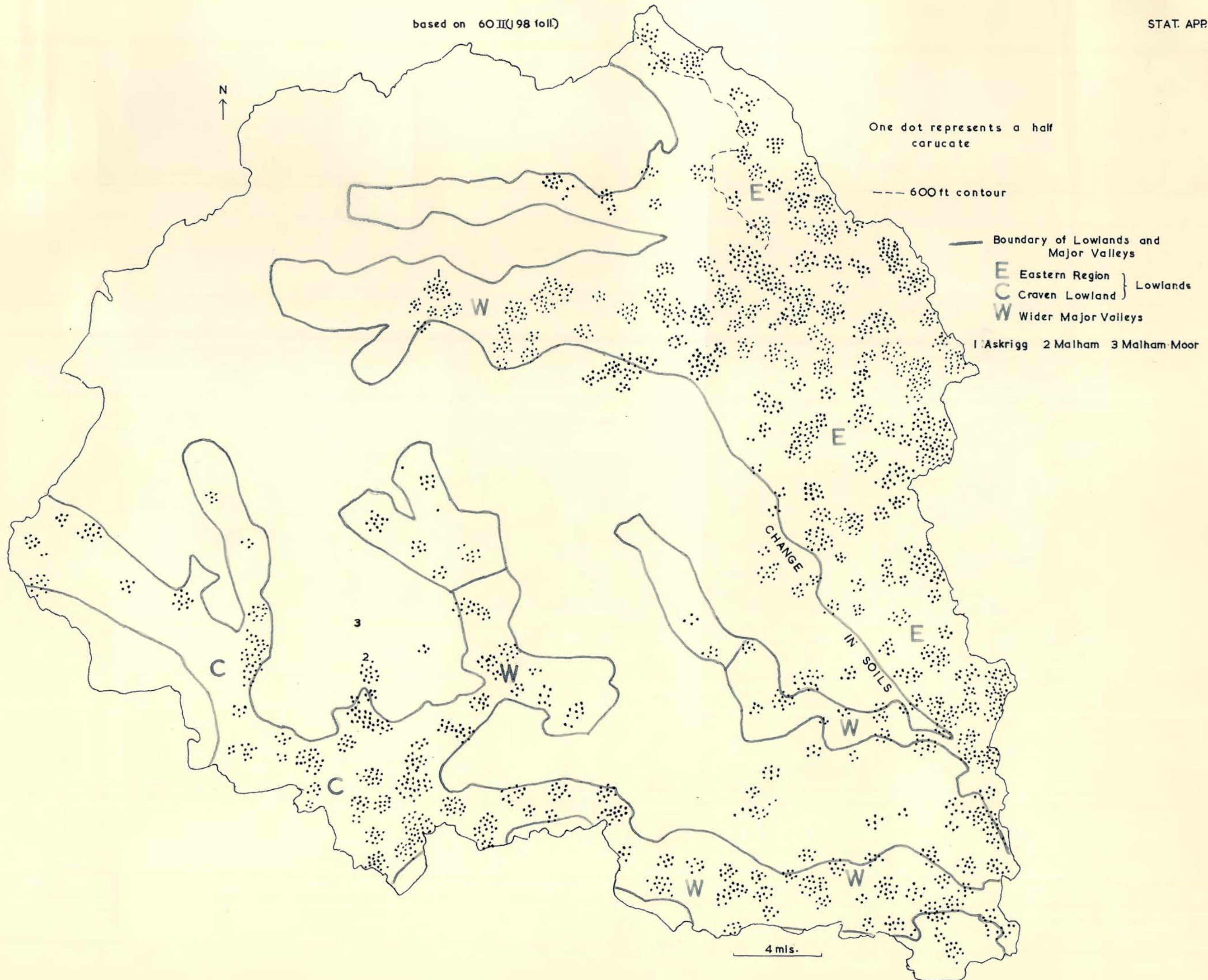


# DOMESDAY CARUCATES

25

based on 60 II (98 foll.)

STAT. APP. 12

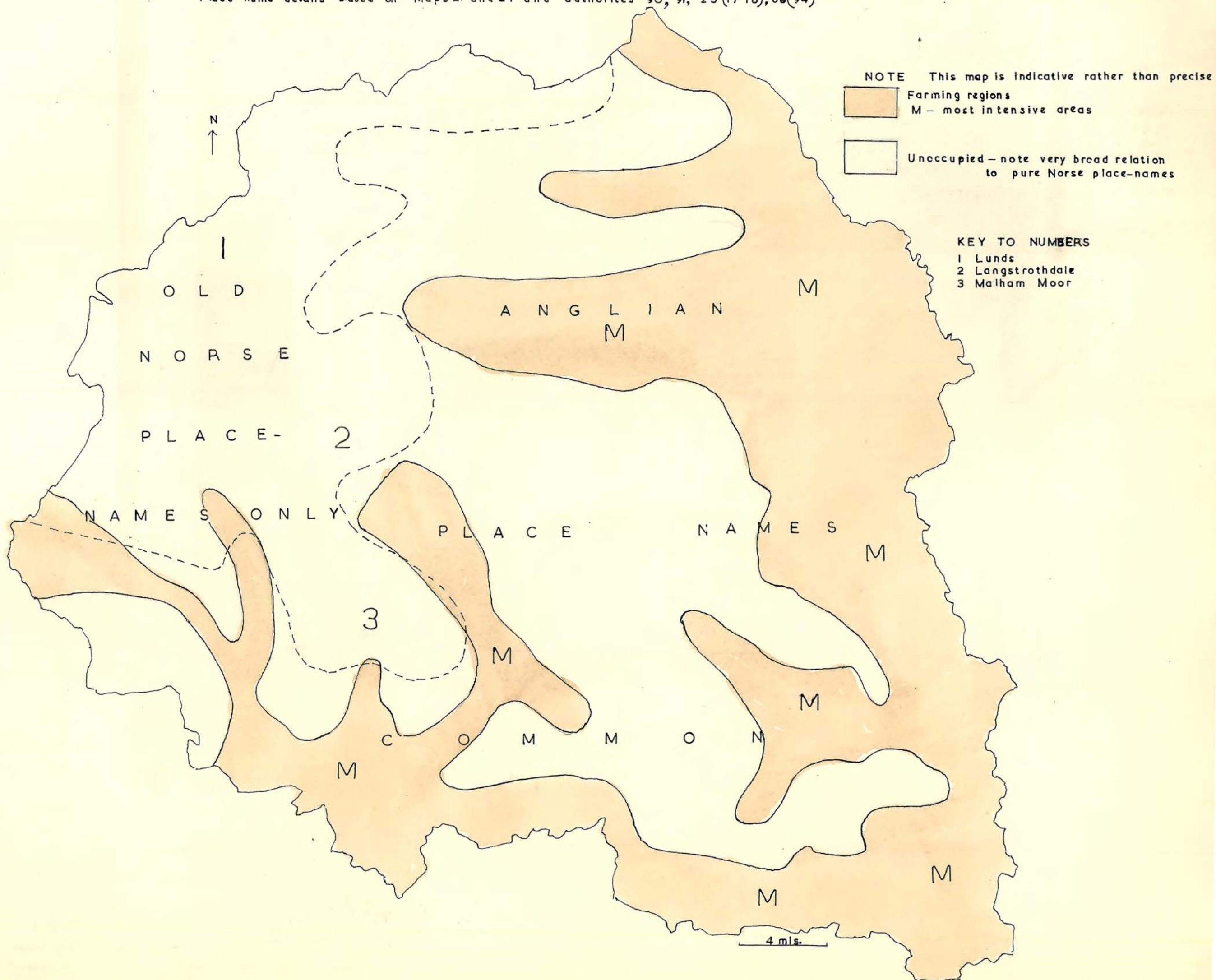








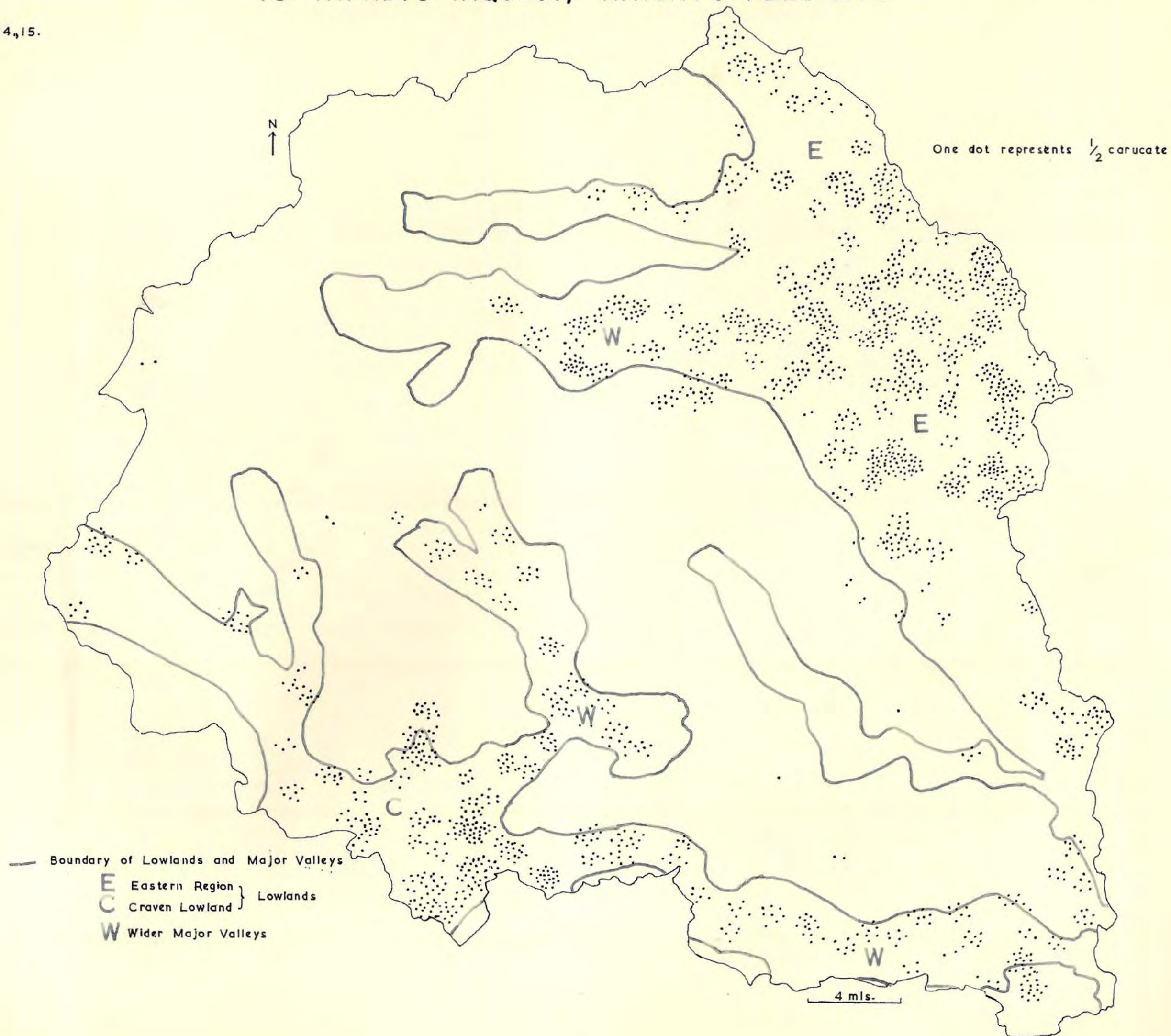
Place name details based on Maps 21 and 24 and authorities 90, 91, 23 (17 18), 68(94)



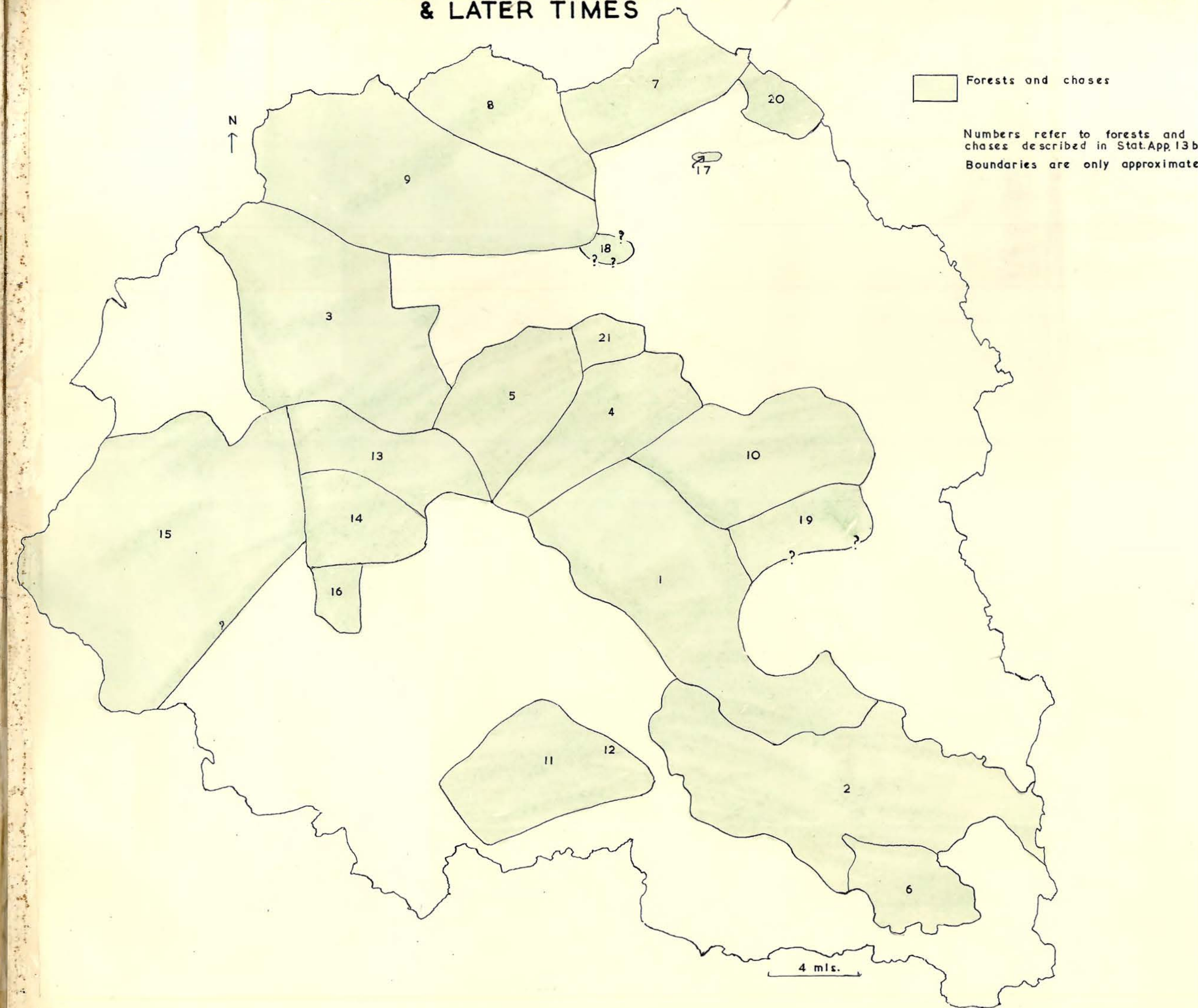
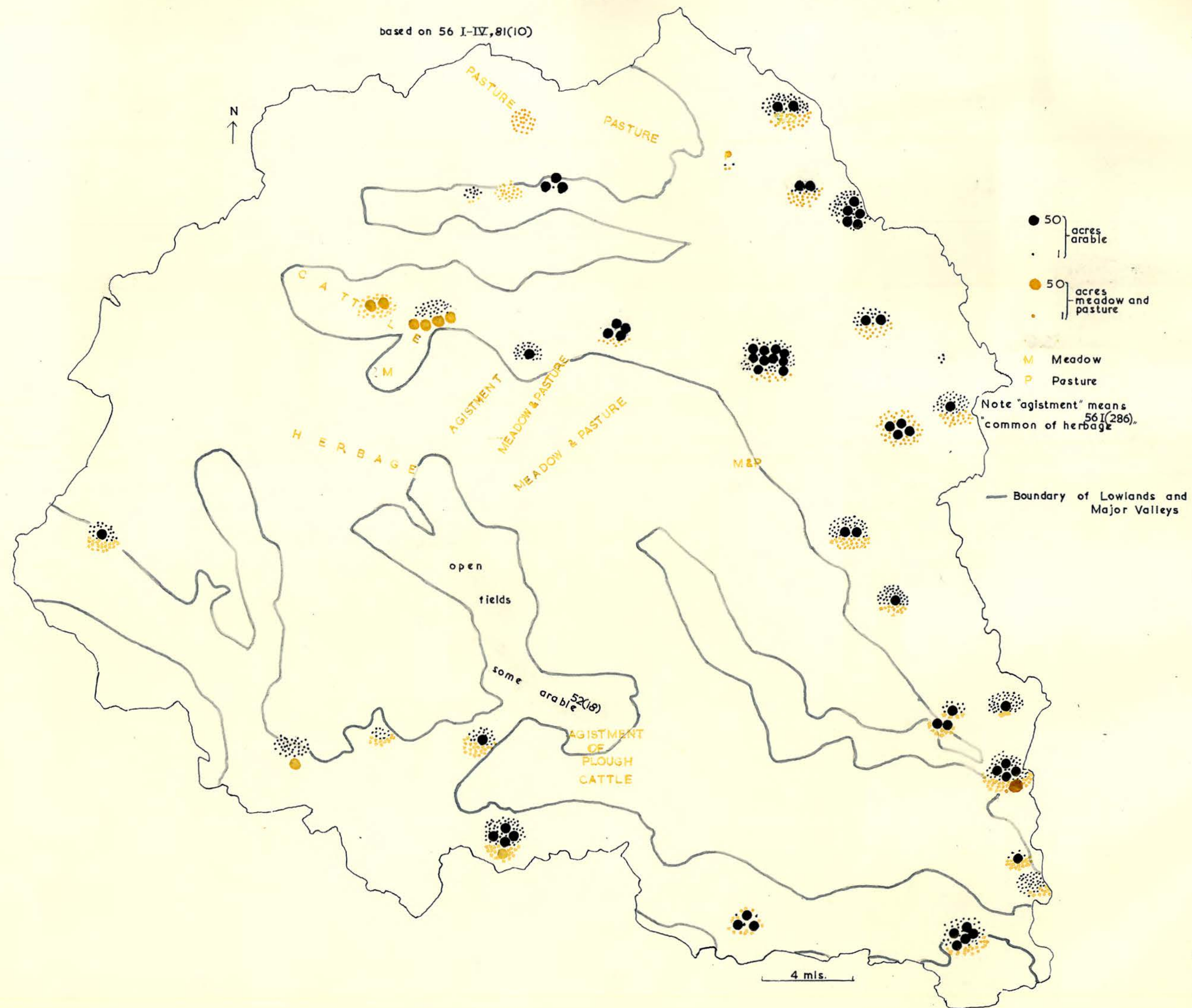


# THE DISTRIBUTION OF CARUCATES ABOUT 1300 A.D. ACCORDING TO KIRKBY'S INQUEST, KNIGHTS' FEES ETC.

STAT. APP. 14, 15.





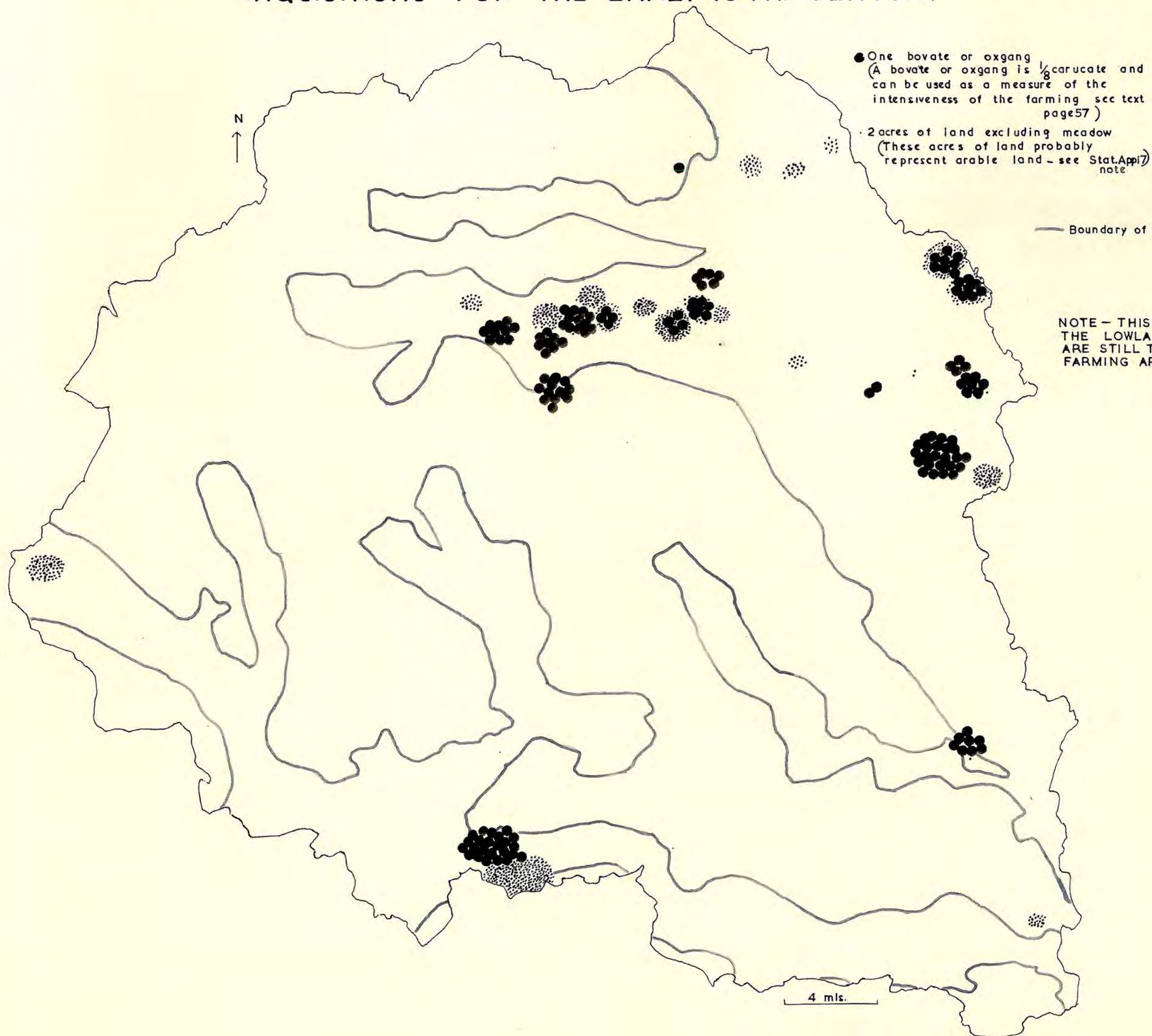




# THE DISTRIBUTION OF LAND HOLDINGS MENTIONED IN THE YORKSHIRE INQUISITIONS FOR THE EARLY 15TH. CENTURY

31

STAT. APP. 17



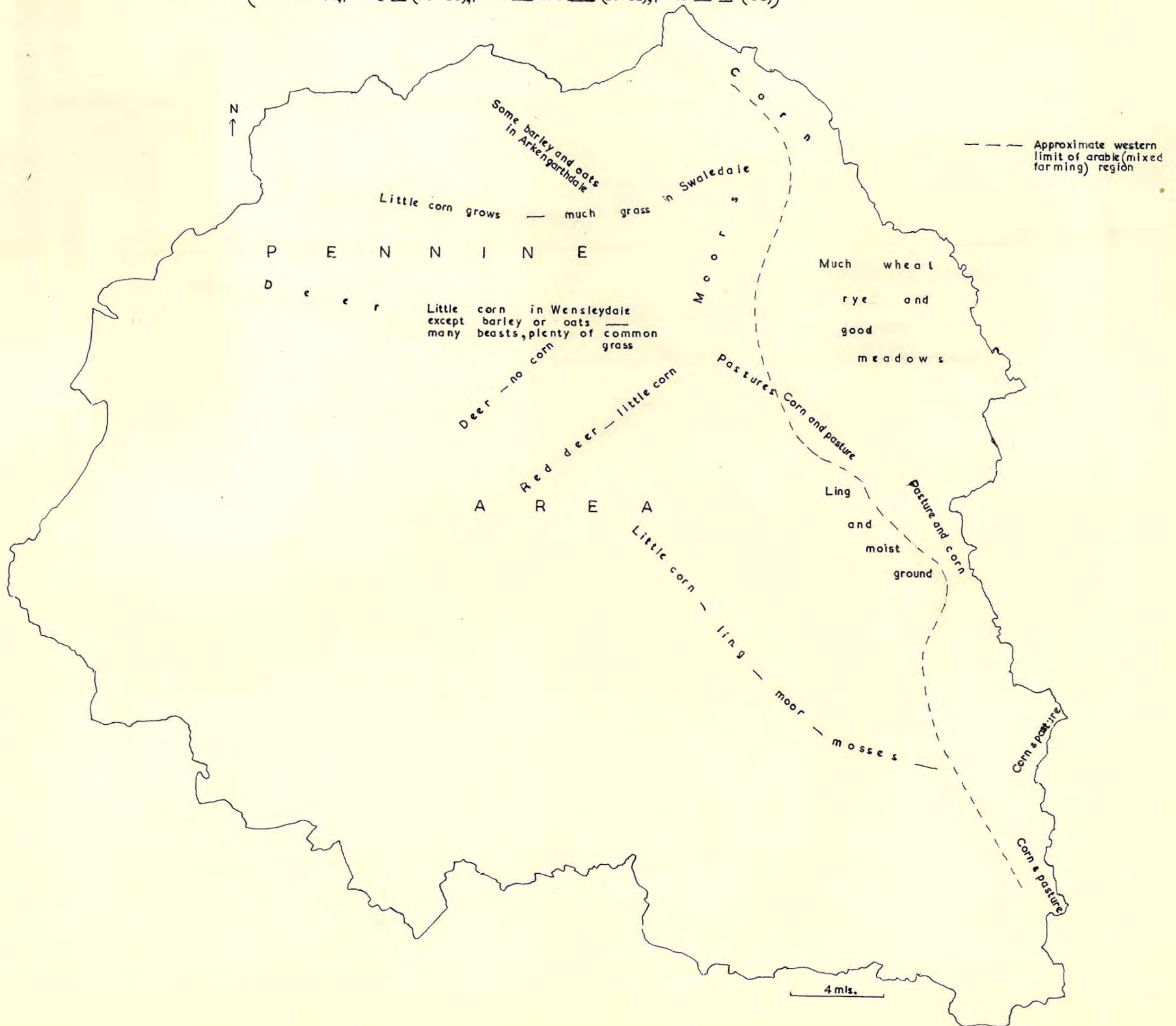
NOTE - THIS MAP SUGGESTS THAT THE LOWLANDS & MAJOR VALLEYS ARE STILL THE MOST INTENSIVE FARMING AREAS WITH MIXED FARMING



# LAND USE ACCORDING TO LELAND, 1535-1543

32

(based on 71, parts I-III (79-88), parts VII and VIII (26-32), parts IX-XI (138))



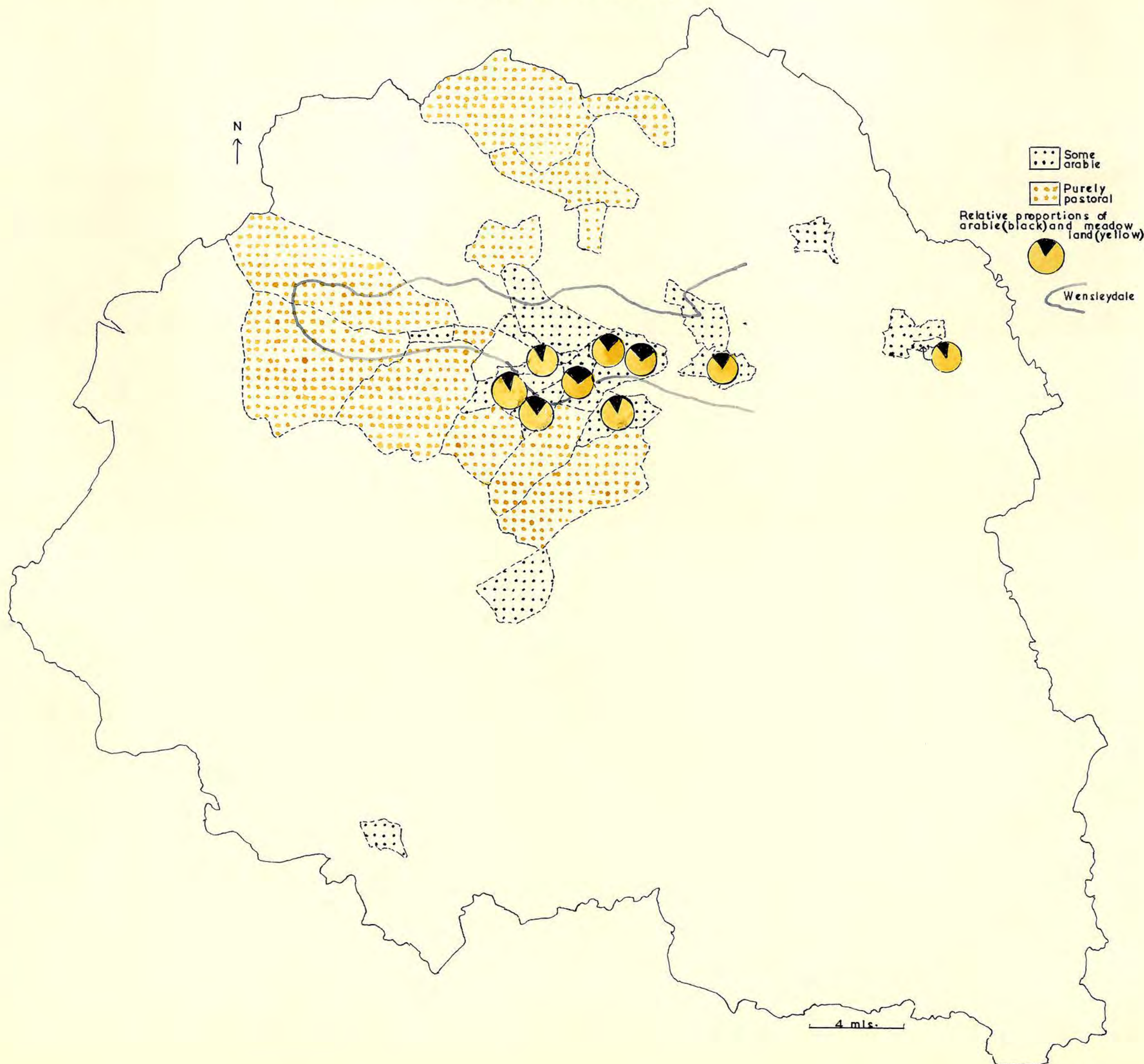


# LAND USE IN THE EARLY 17TH. CENTURY

according to the Yorkshire Surveys<sup>77</sup>

33

STAT. APP. 18





# THE DISTRIBUTION OF ARABLE CULTIVATION IN THE LATE 18TH. CENTURY

based on 72, 76

34

STAT. APP. 19

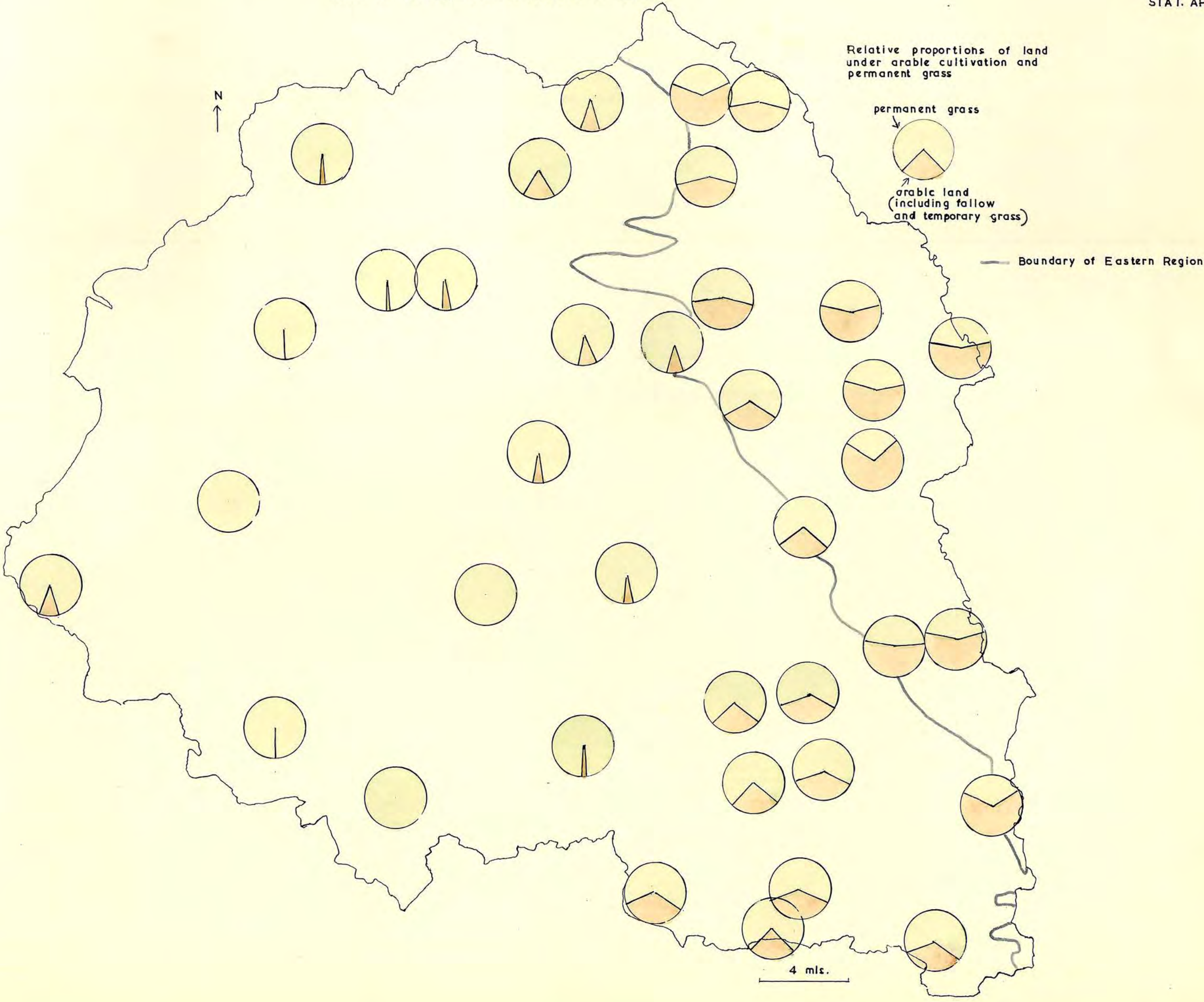




ARABLE & GRASS IN 1870

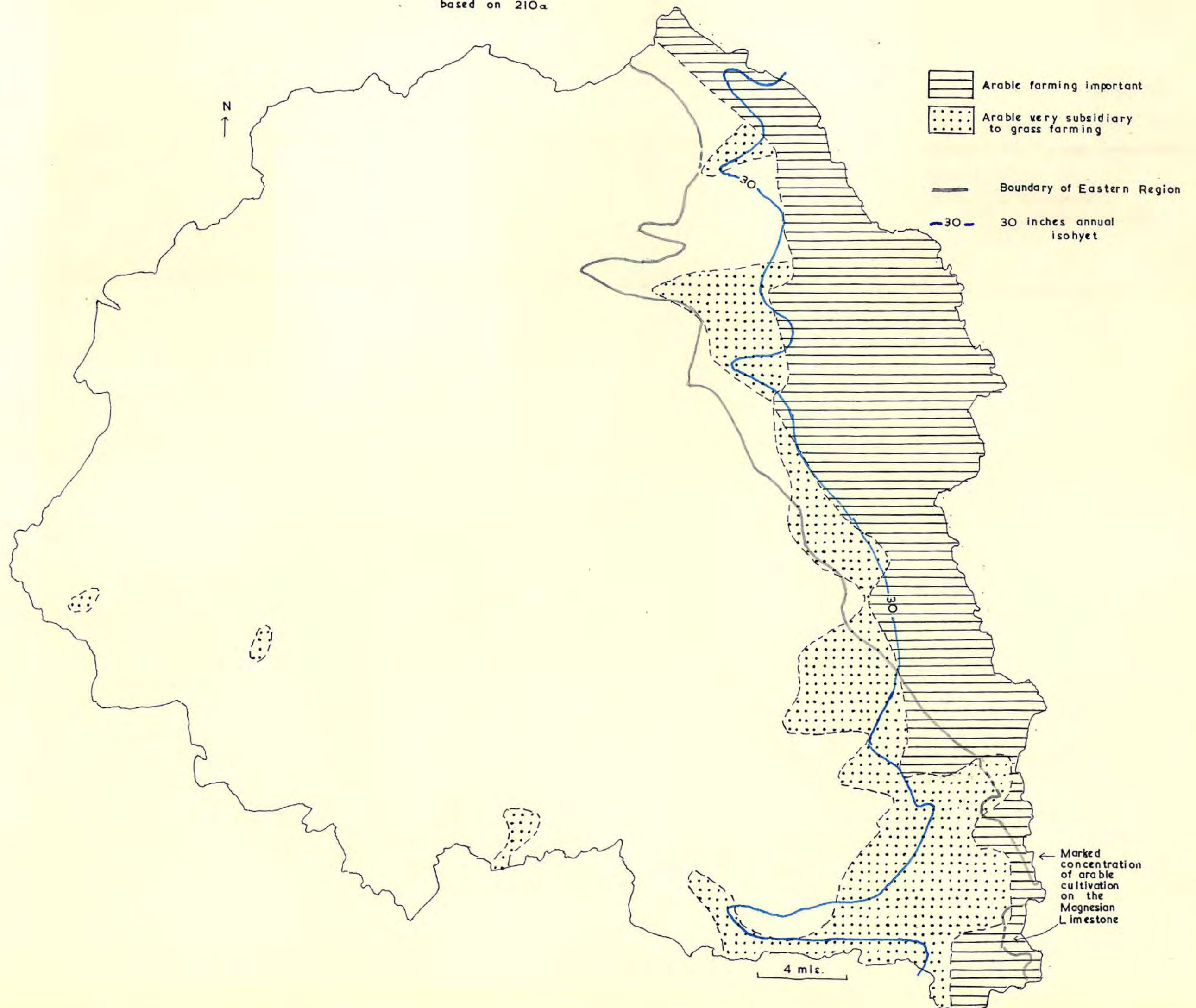
based on the Agricultural Returns of 1870

STAT. APP. 20

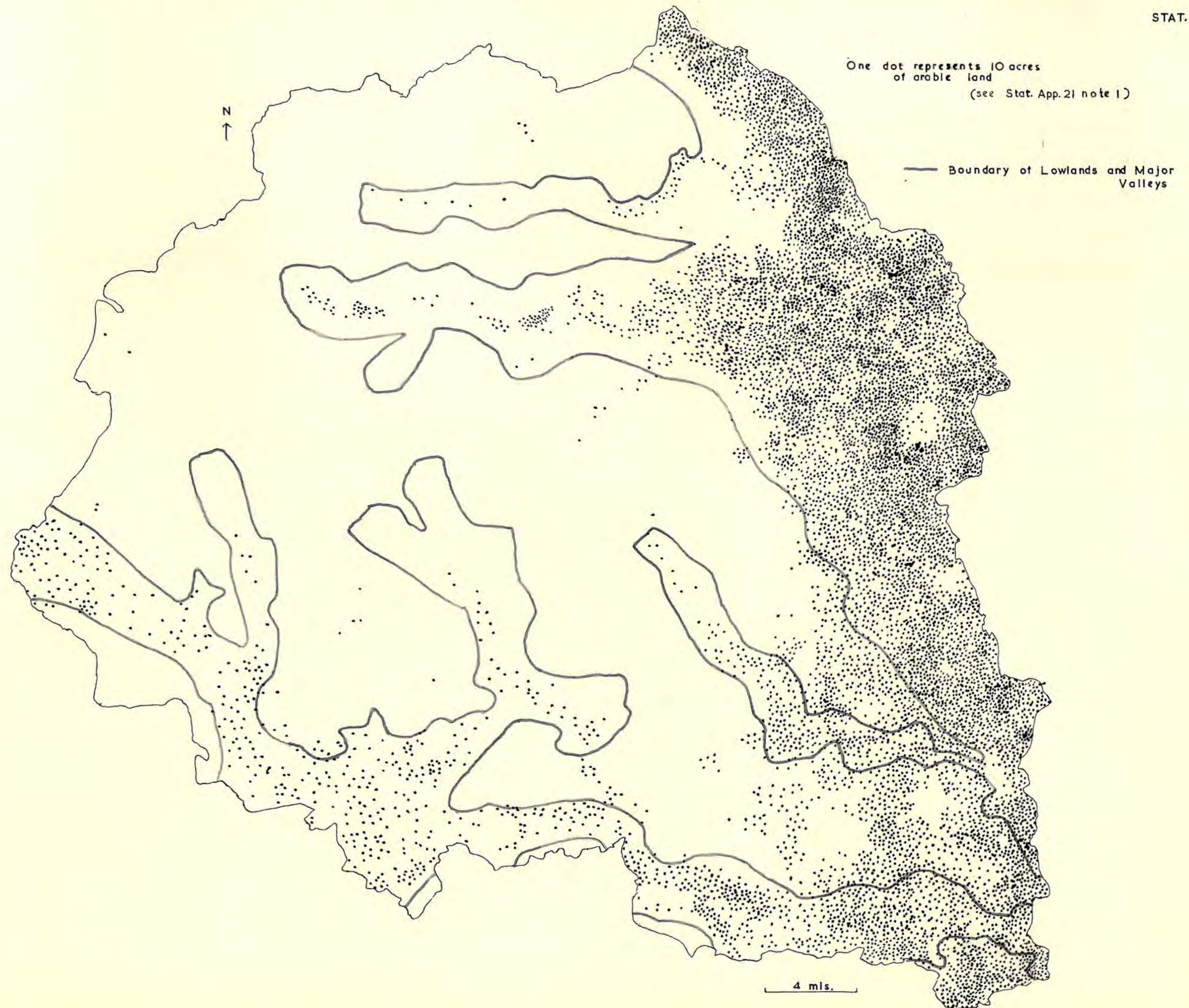




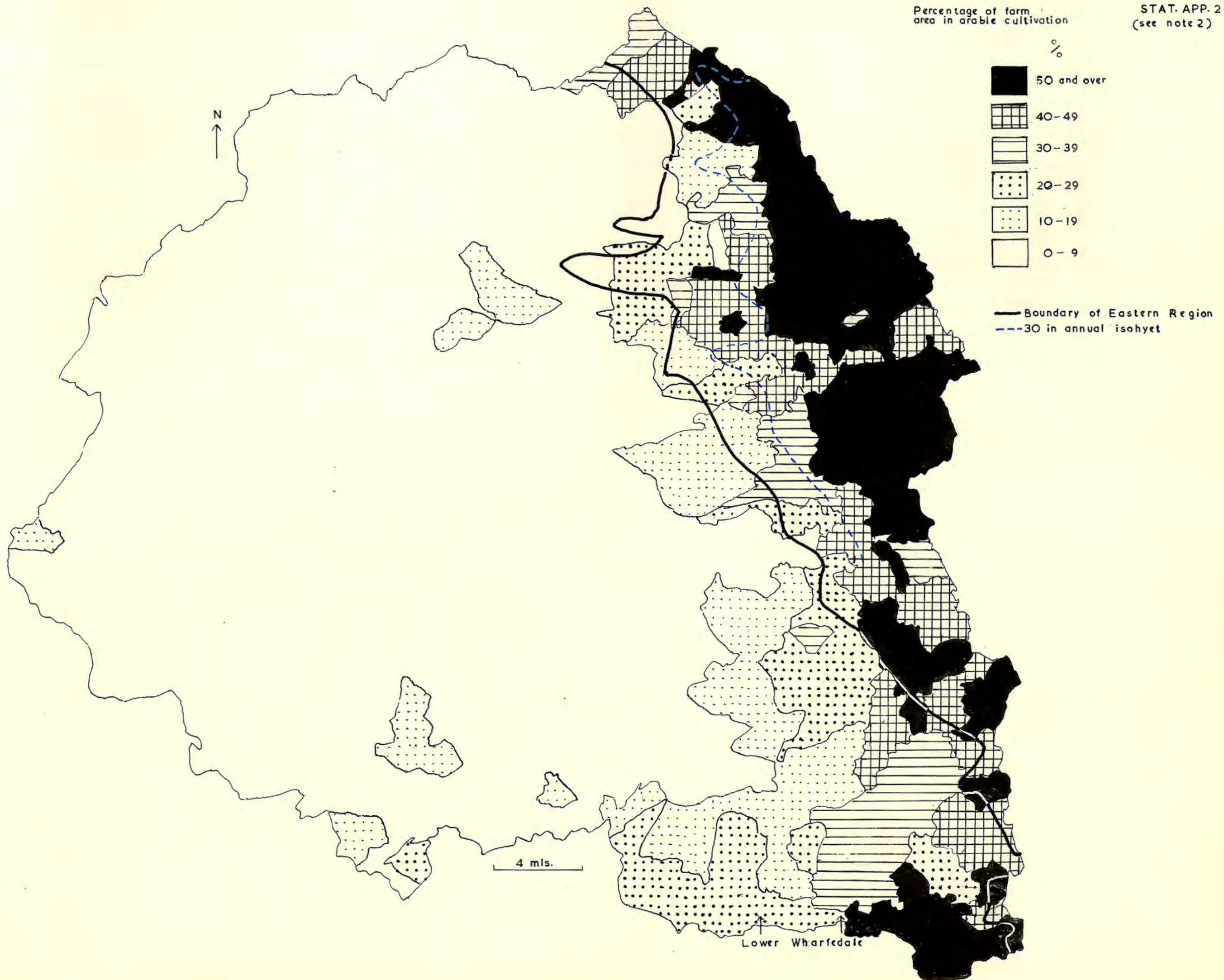
based on 210a











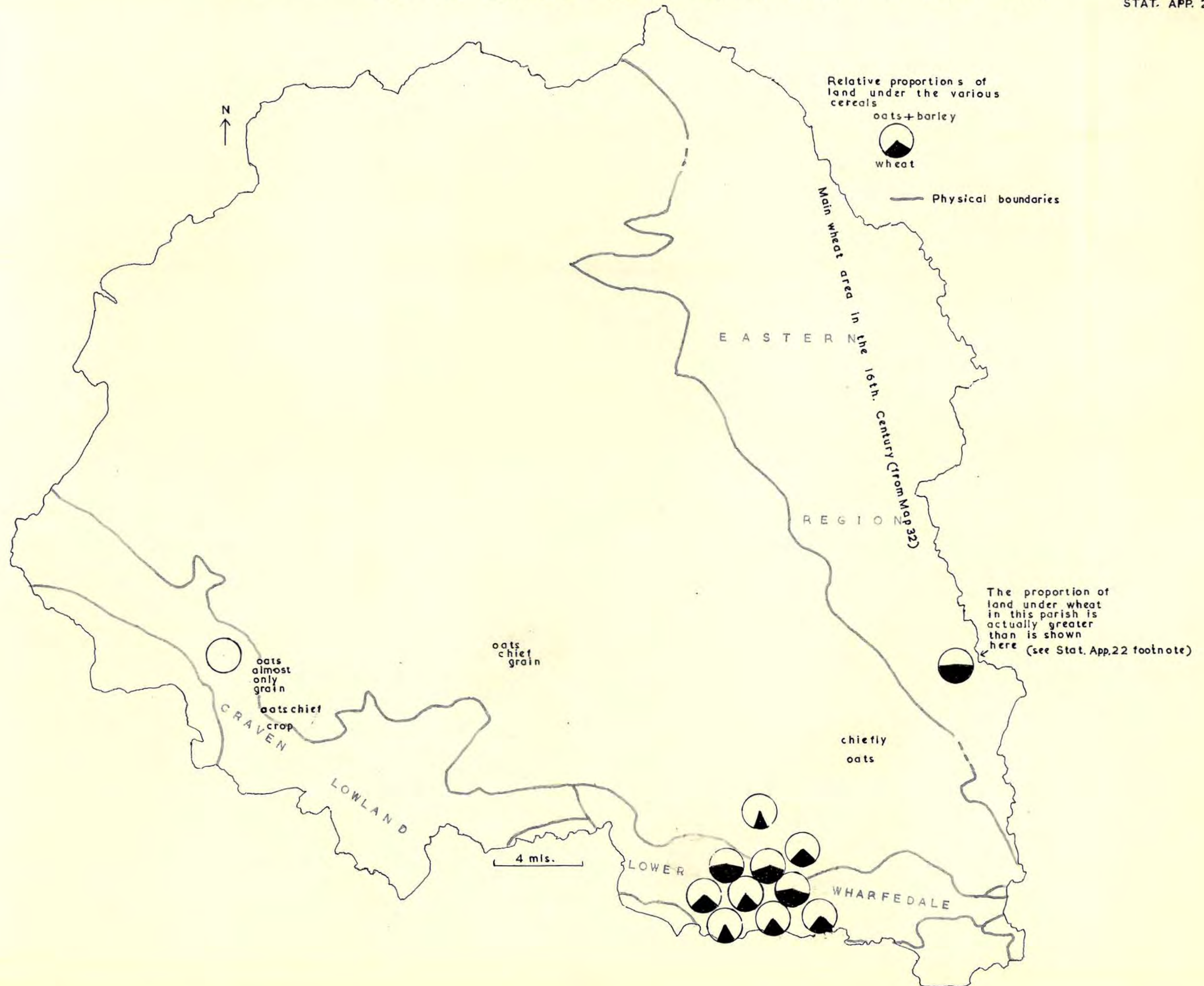


# REGIONAL VARIATIONS IN THE IMPORTANCE OF WHEAT AMONGST THE CEREALS IN THE LATE 18TH.CENTURY

39

NOTE THE RELATIONS BETWEEN WHEAT CULTIVATION & THE EASTERN REGION

STAT. APP. 22



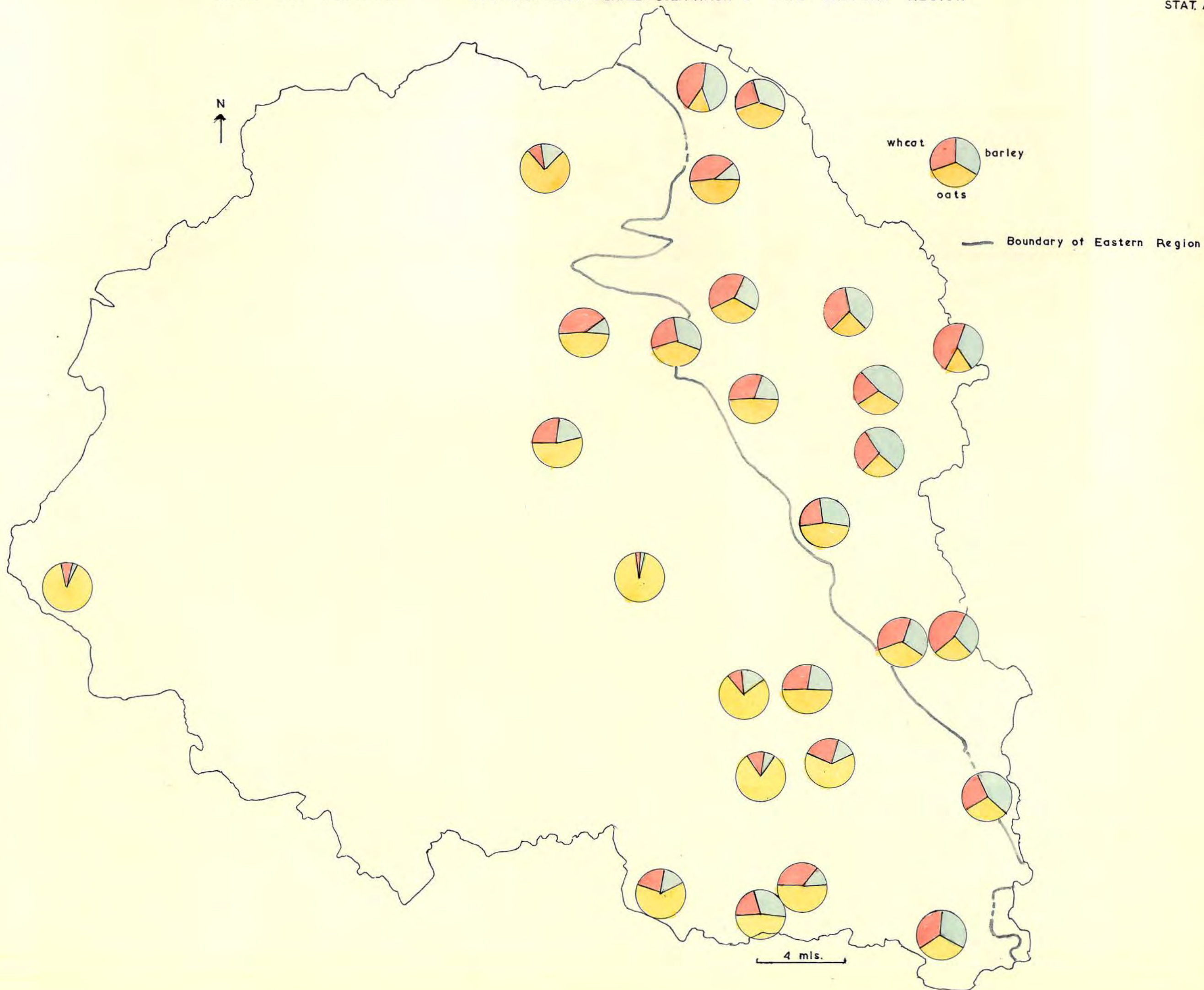


# REGIONAL DIFFERENCES IN THE RELATIVE PROPORTIONS OF LAND UNDER THE VARIOUS CEREALS IN 1870

NOTE THE RELATIONS BETWEEN WHEAT & BARLEY CULTIVATION & THE EASTERN REGION

40

STAT. APP. 20





# THE APPROXIMATE WESTERN LIMITS OF WHEAT 1937-1938

based on dot maps in Land  
of Britain Reports 9(400), 3(125)

41

NOTE RELATIONS: TO EASTERN REGION



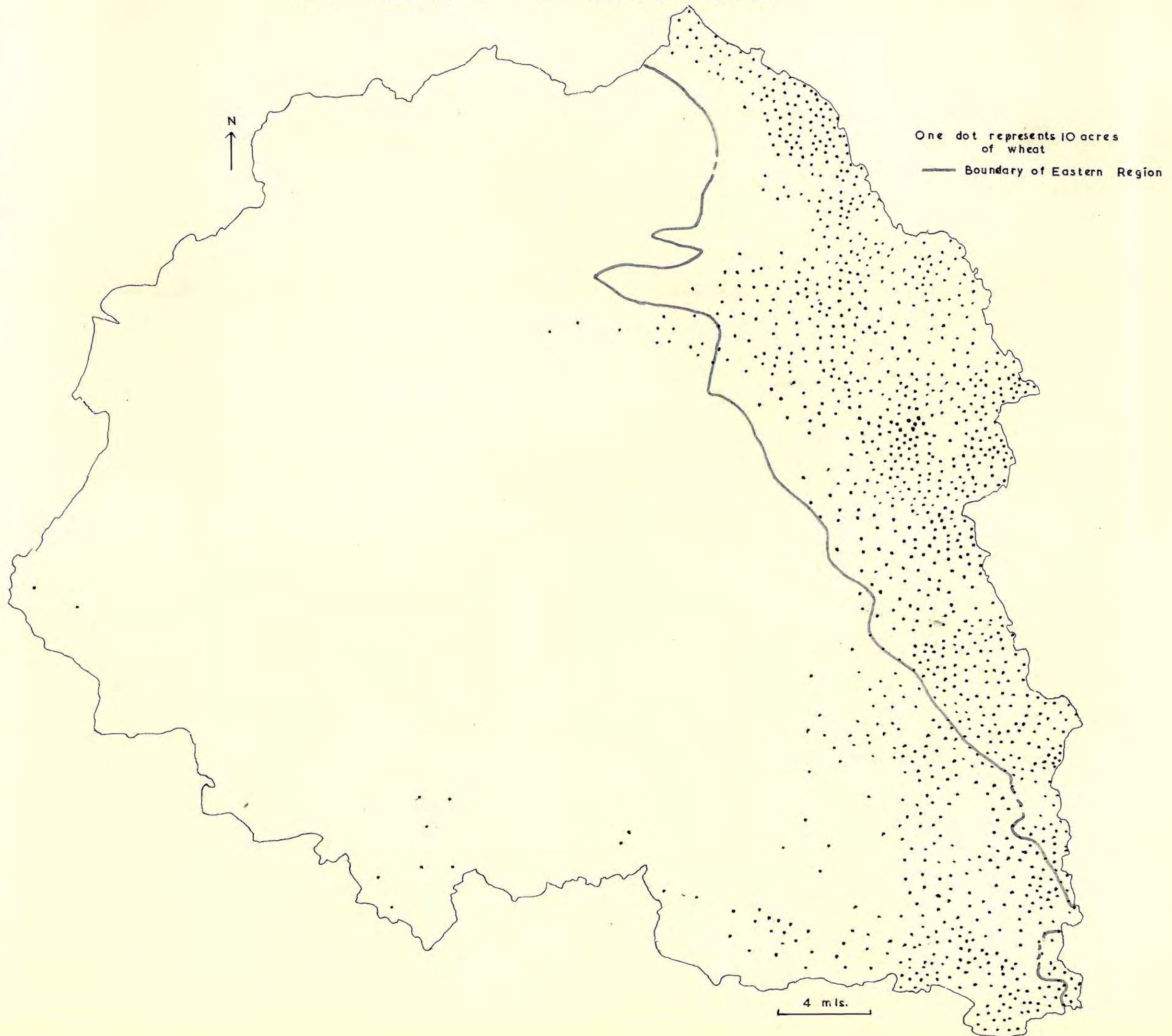


# THE DISTRIBUTION OF WHEAT-1948

42

NOTE RELATIONS: TO EASTERN REGION

STAT. APR. 21



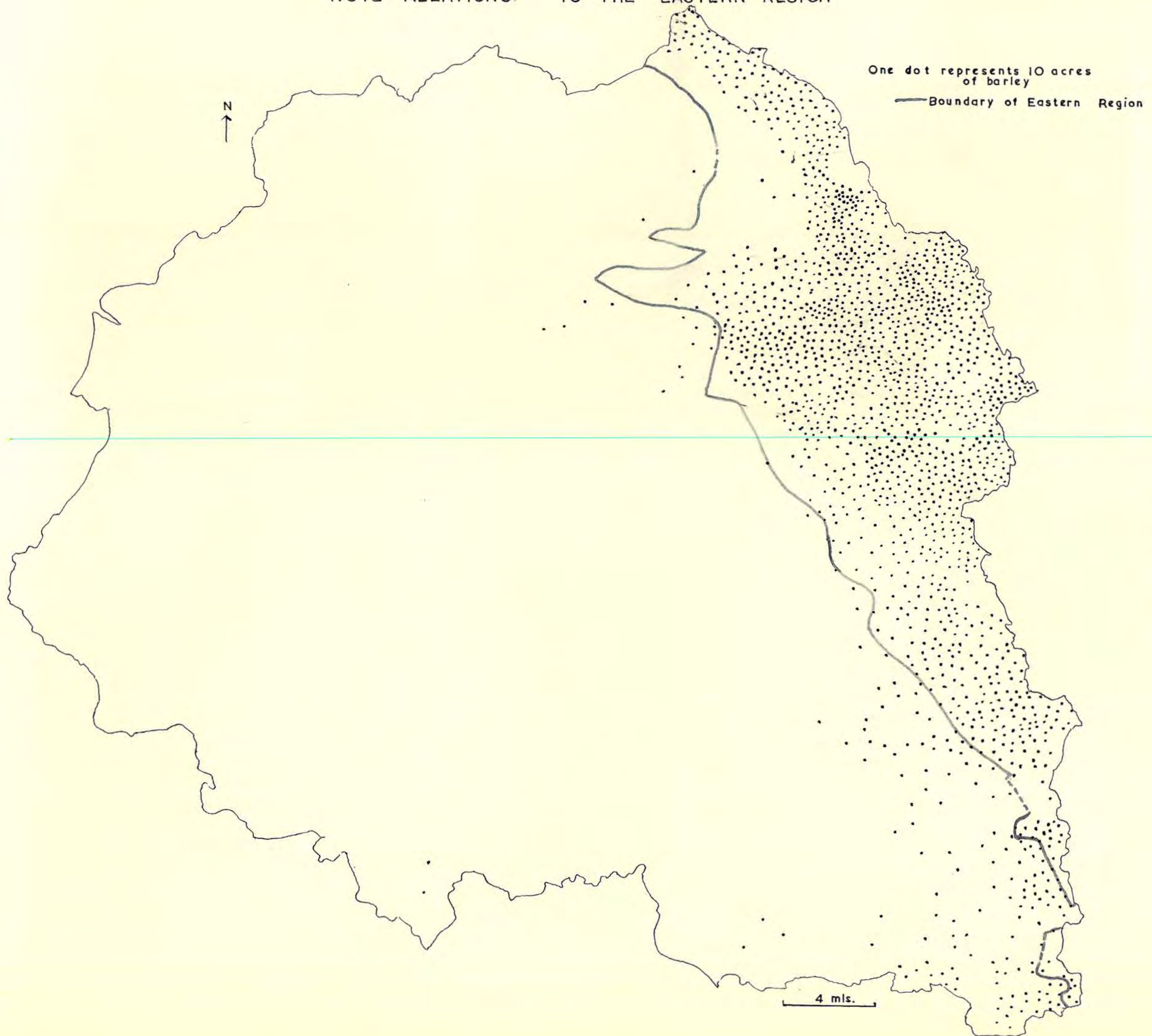


# THE DISTRIBUTION OF BARLEY - 1948

43

NOTE RELATIONS TO THE EASTERN REGION

STAT. APP. 21



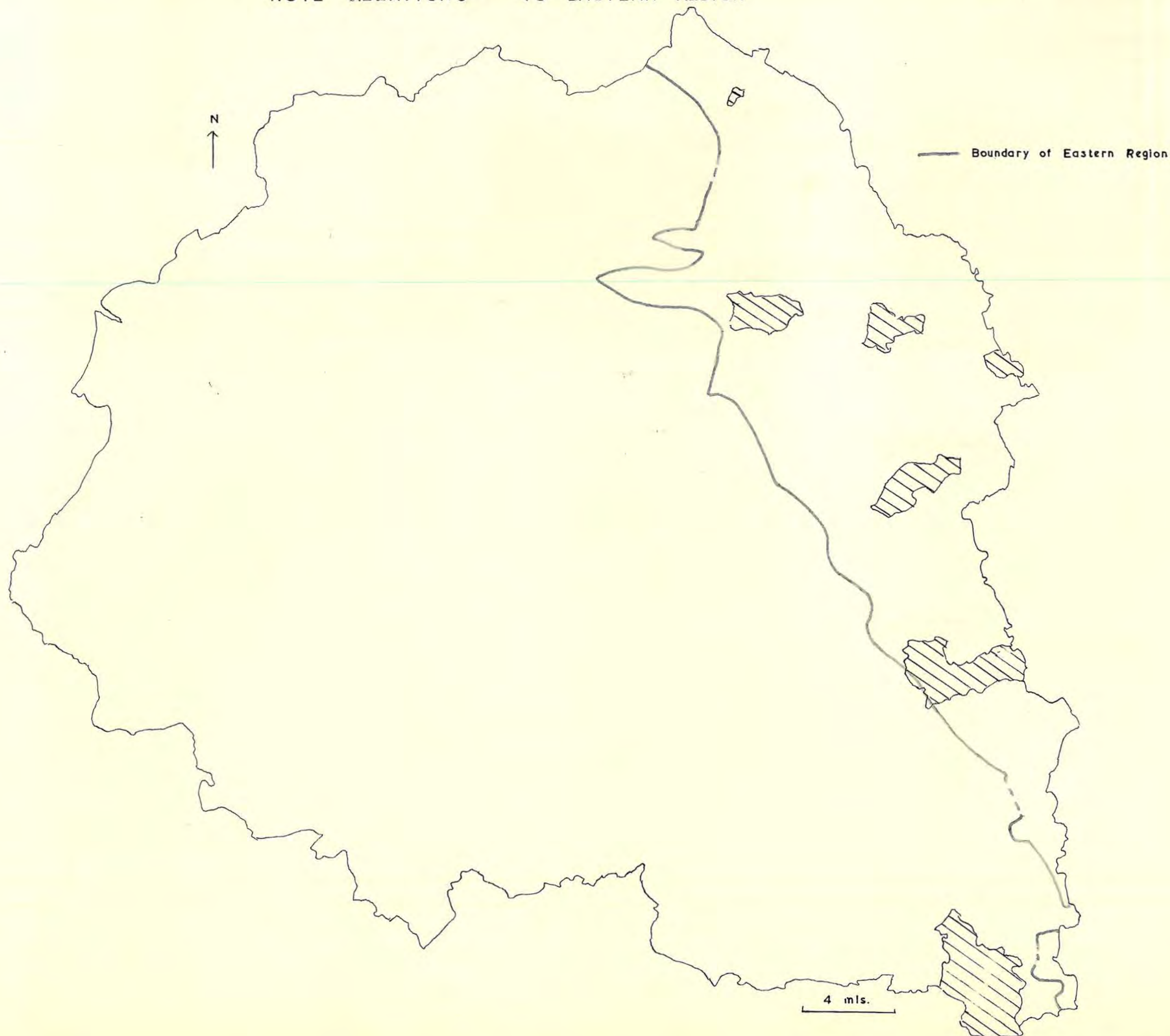


PARISHES (SHADED) IN WHICH WHEAT OCCUPIED A GREATER ACREAGE THAN OATS  
(FROM A SERIES OF SAMPLES OVER THE AREA AS A WHOLE)  
IN 1870

44

STAT. APP. 20

NOTE RELATIONS TO EASTERN REGION



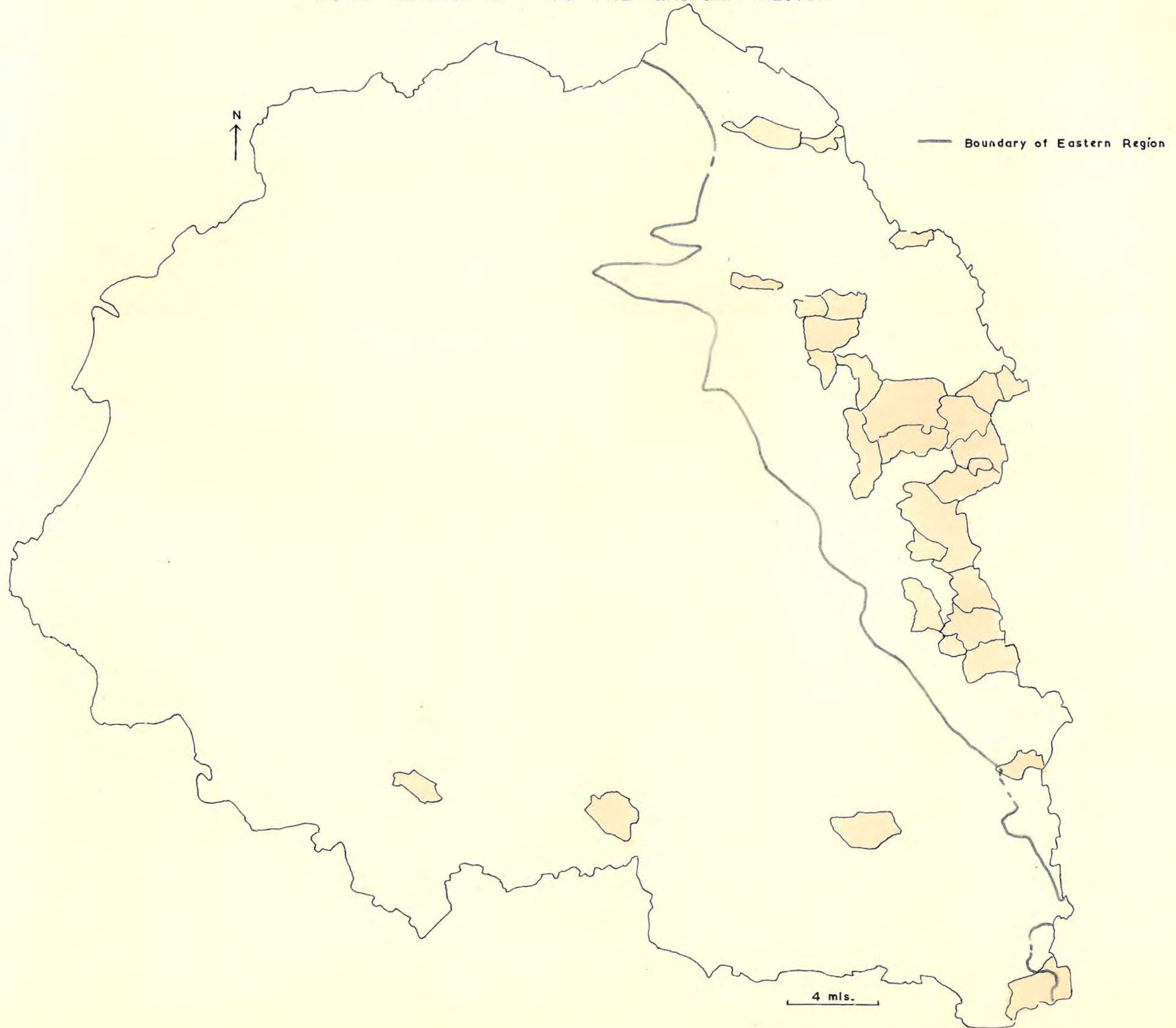


# PARISHES<sup>(TINTED)</sup> IN WHICH WHEAT OCCUPIED A GREATER ACREAGE THAN OATS IN 1948

45

STAT. APP. 21

NOTE RELATIONS TO THE EASTERN REGION



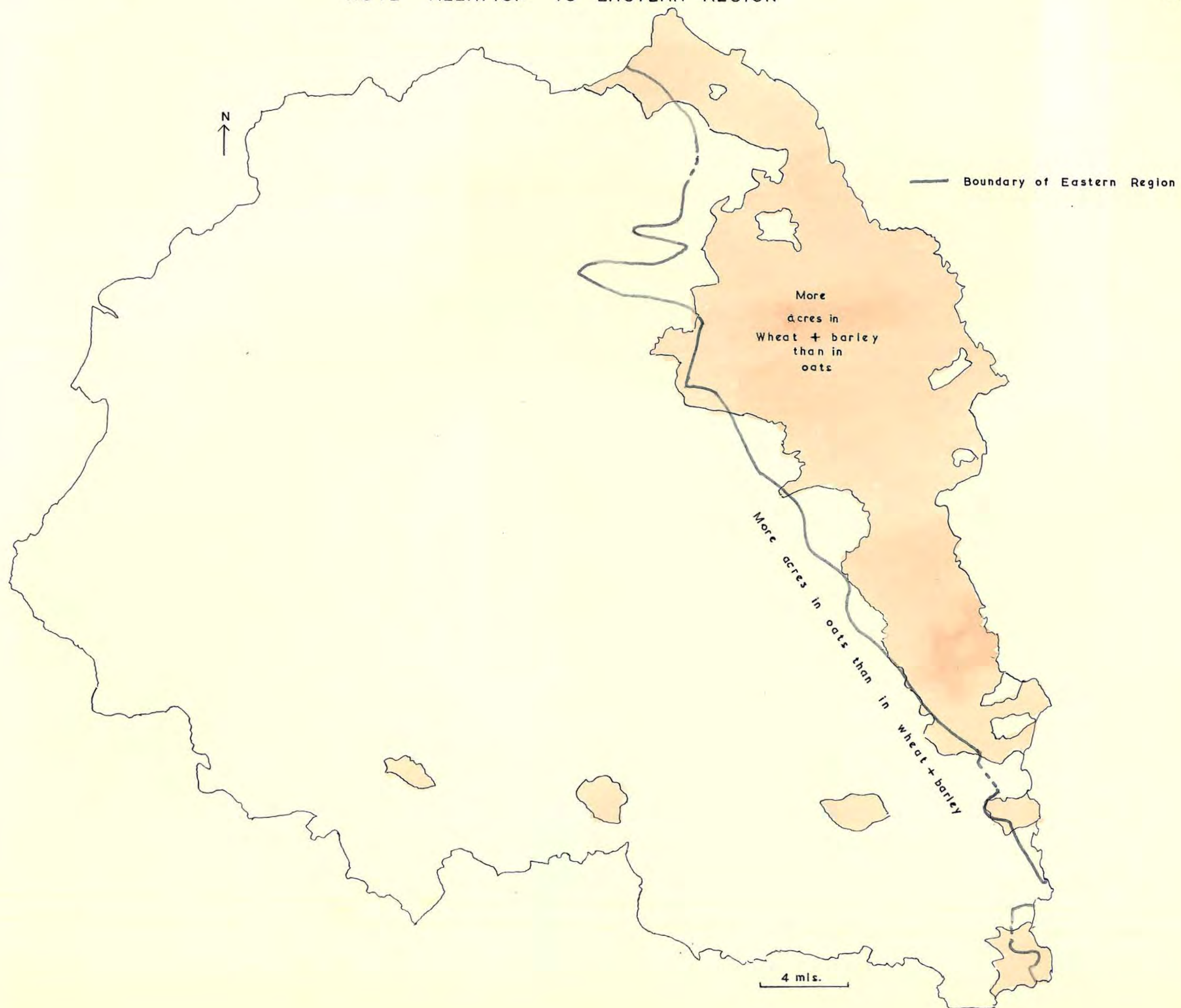


PARISHES<sup>(TINTED)</sup> IN WHICH WHEAT & BARLEY TOGETHER OCCUPIED  
A GREATER ACREAGE THAN OATS IN 1948

46

STAT. APP. 21

NOTE RELATION TO EASTERN REGION

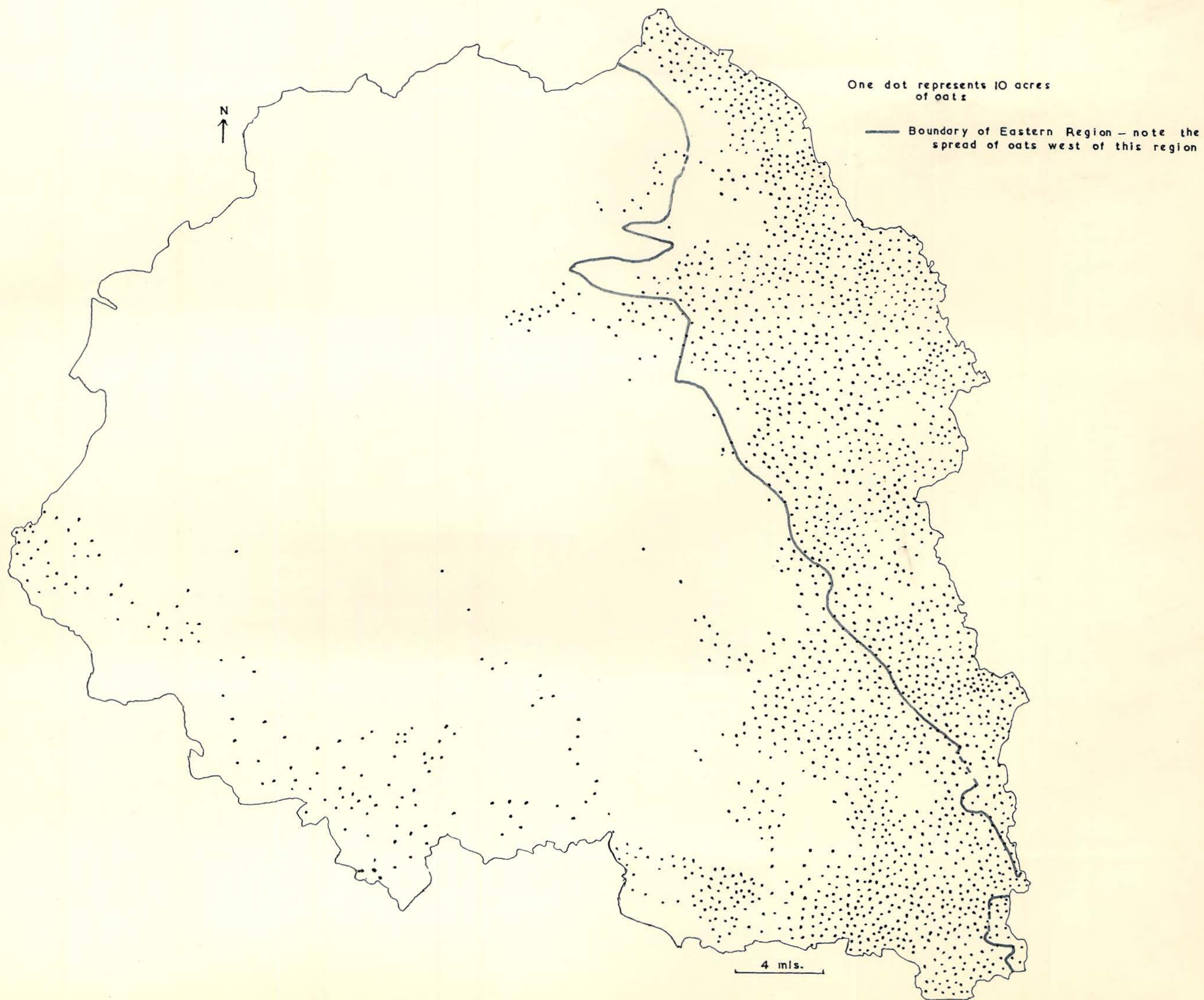




# THE DISTRIBUTION OF OATS - 1948

47

STAT. APP. 21





# THE DISTRIBUTION OF SUGAR BEET - 1948

48

NOTE RELATION TO EASTERN REGION

STAT. APP. 21



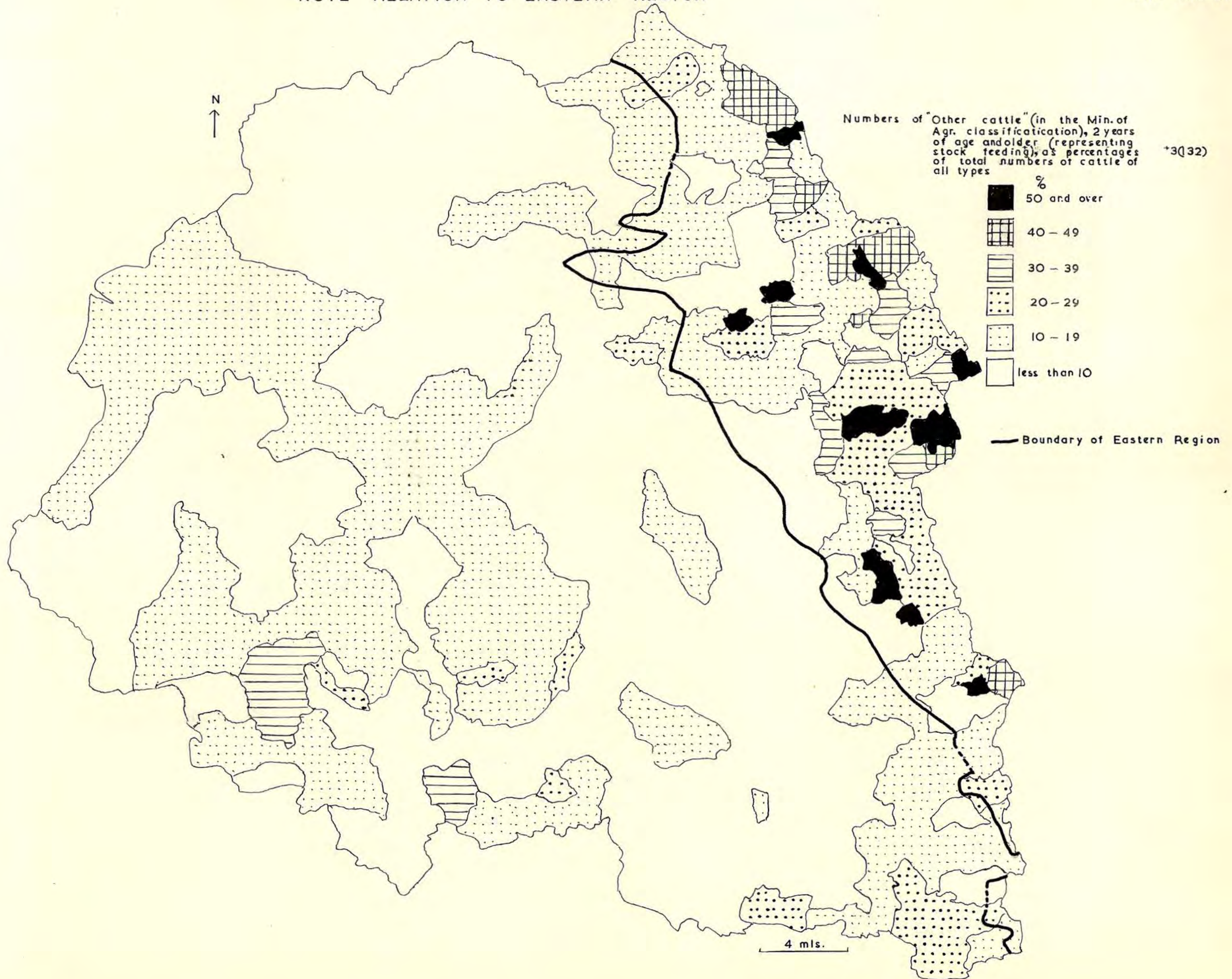


# THE DISTRIBUTION OF STOCK FEEDING - 1948

49

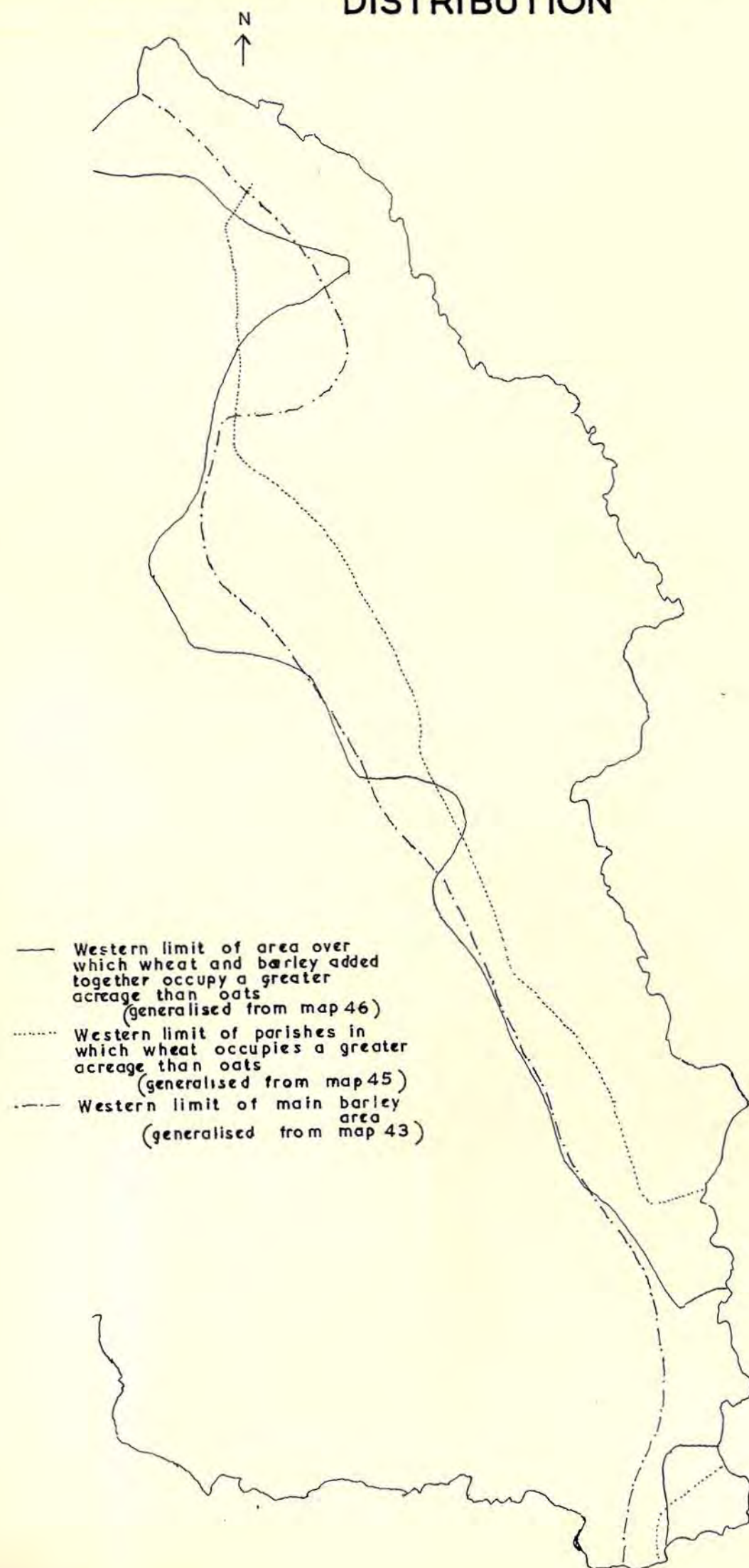
NOTE RELATION TO EASTERN REGION

STAT. APP. 24

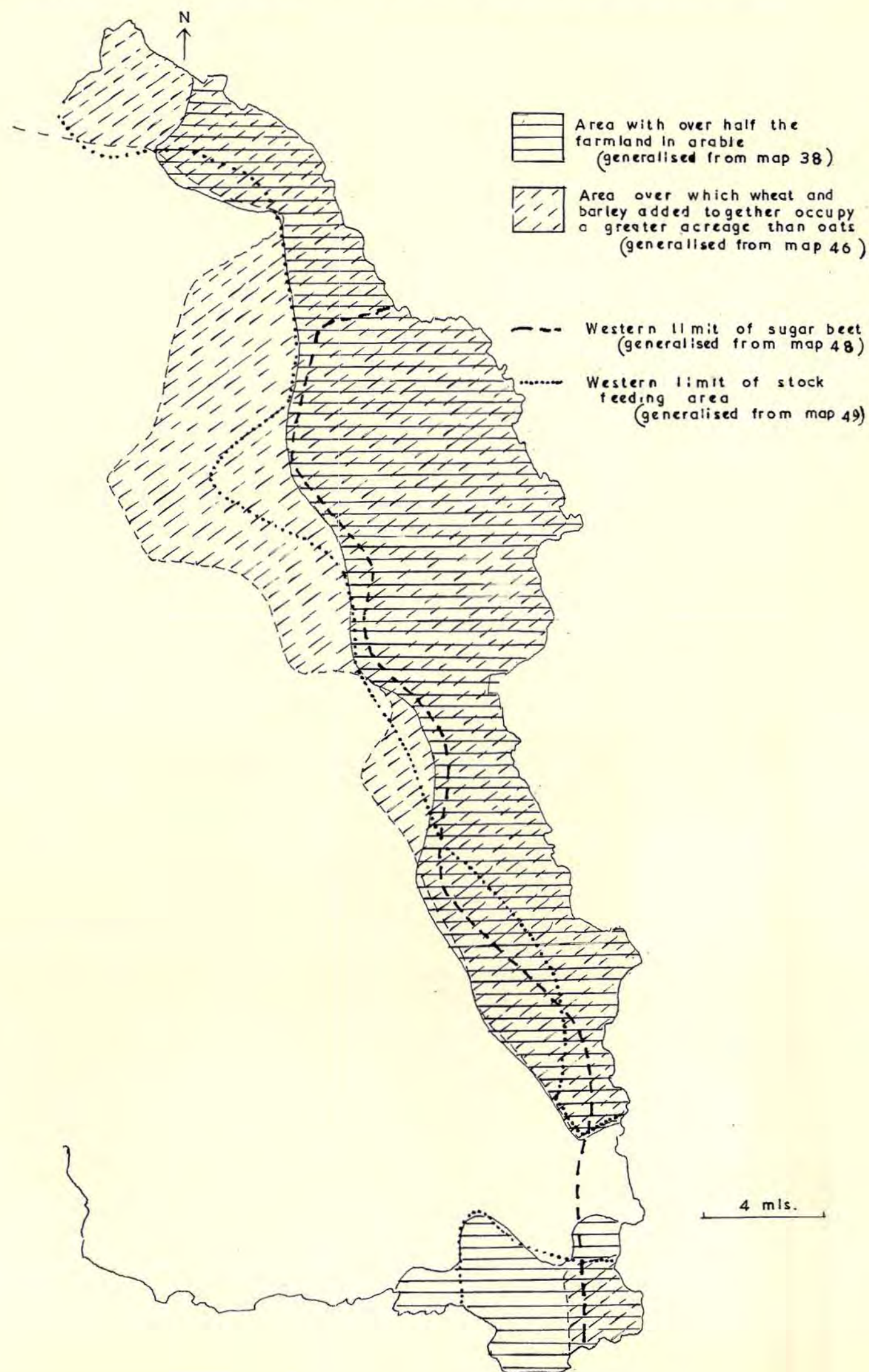




## (a) REGIONALISM IN CEREAL DISTRIBUTION

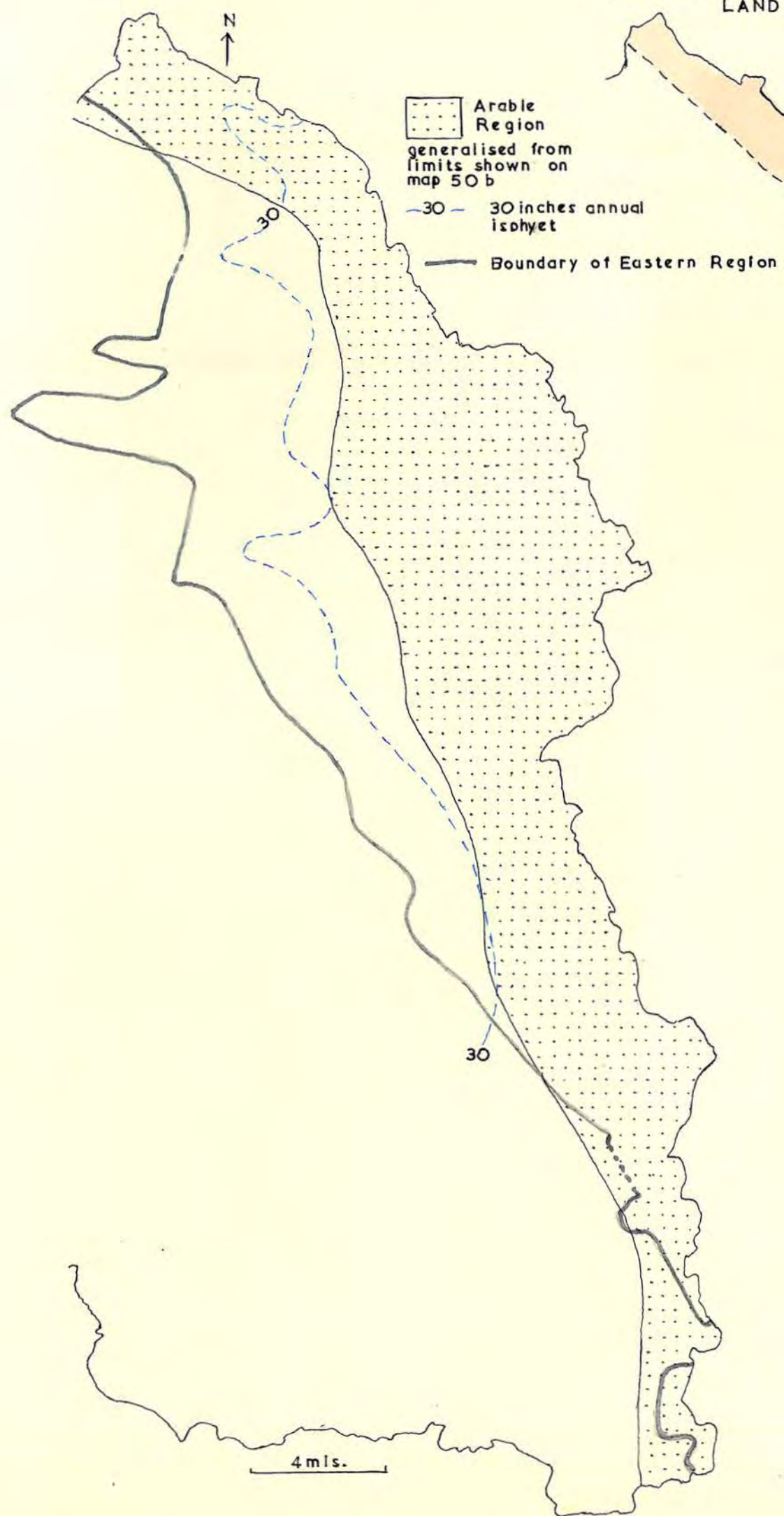


## (b) REGIONALISM - ADDITIONAL EVIDENCE





# (a) THE ARABLE REGION



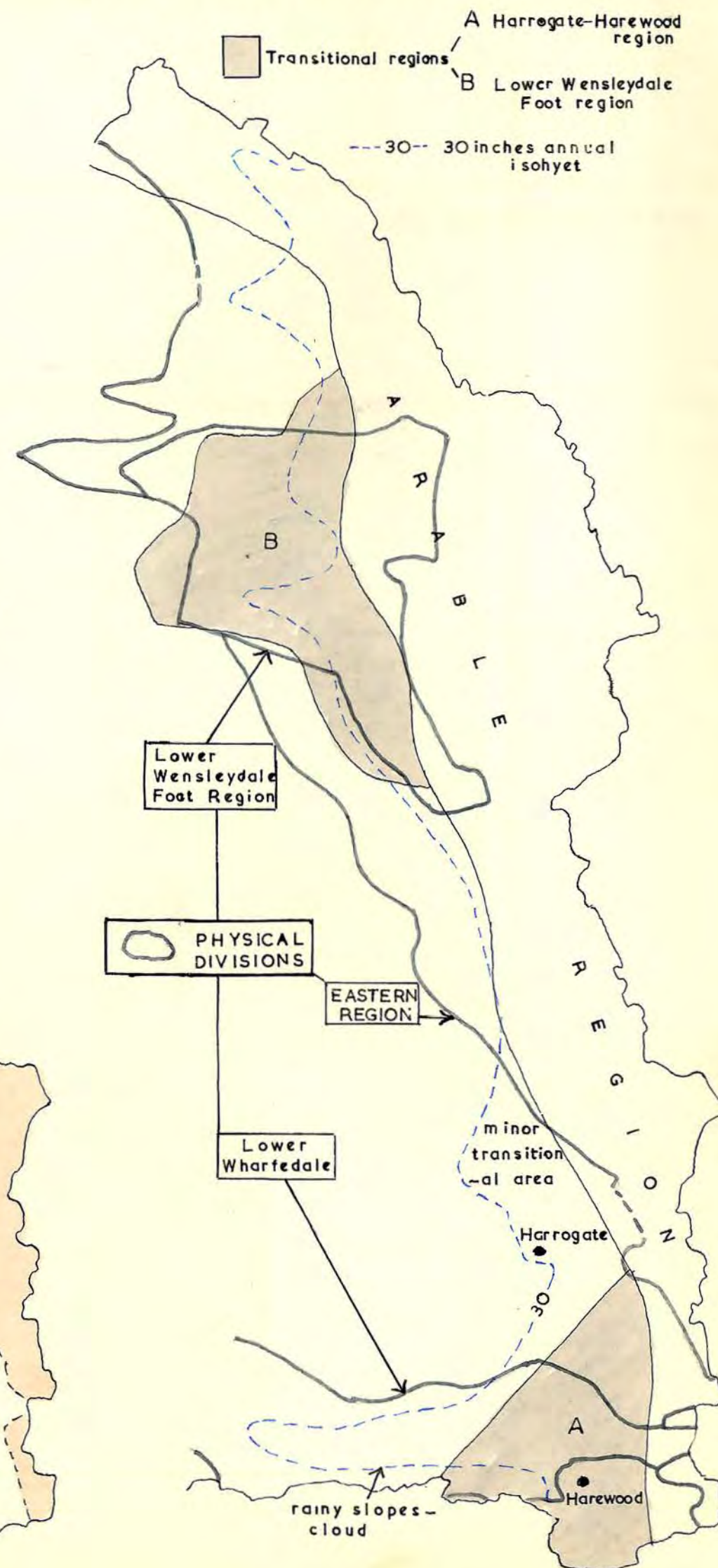
# (b) THE DISTRIBUTION OF GOOD QUALITY LAND (TINTED)

ACCORDING TO THE OFFICIAL MAP OF LAND CLASSIFICATION 208

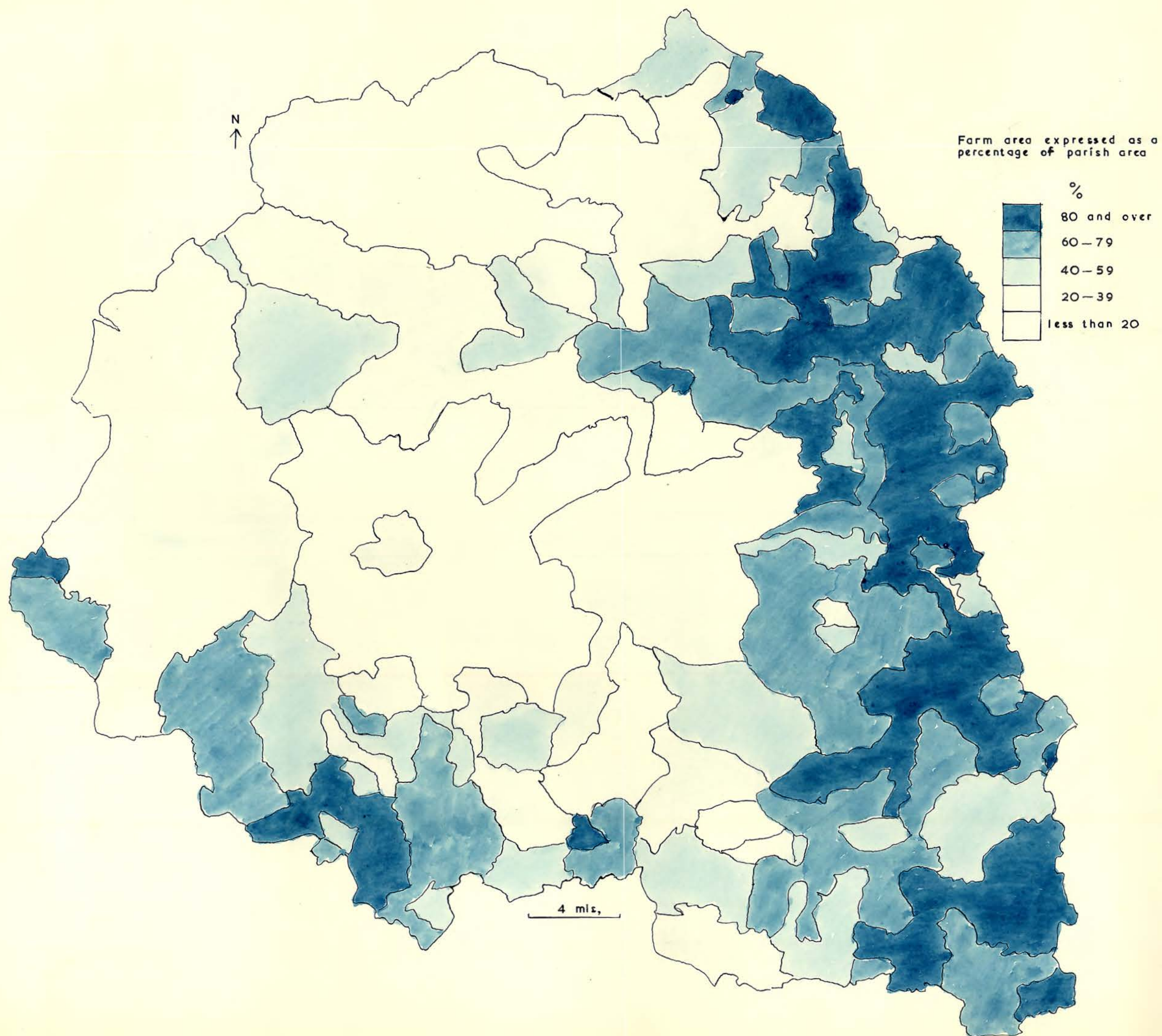


# (c) TRANSITIONAL AREAS

51



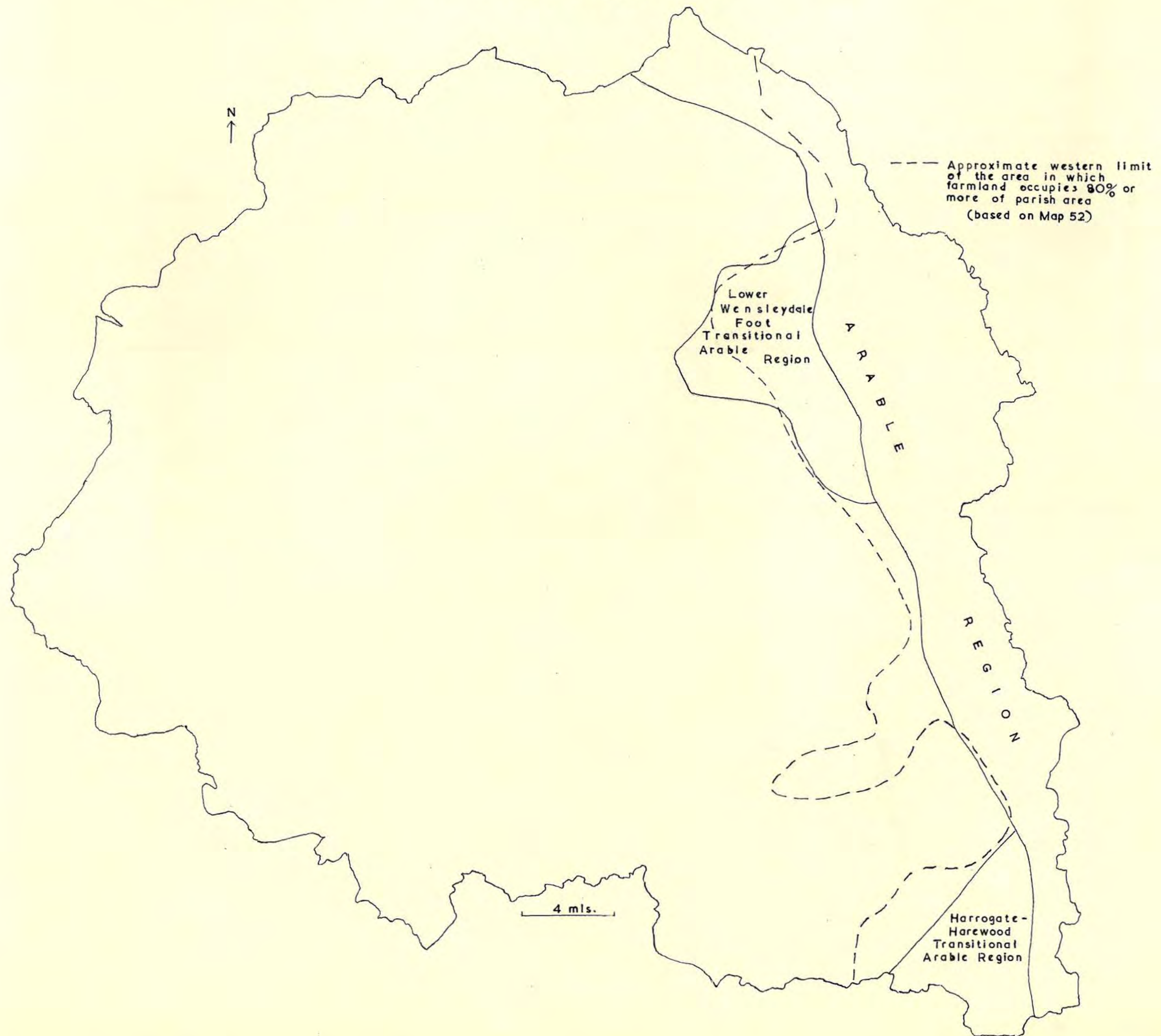






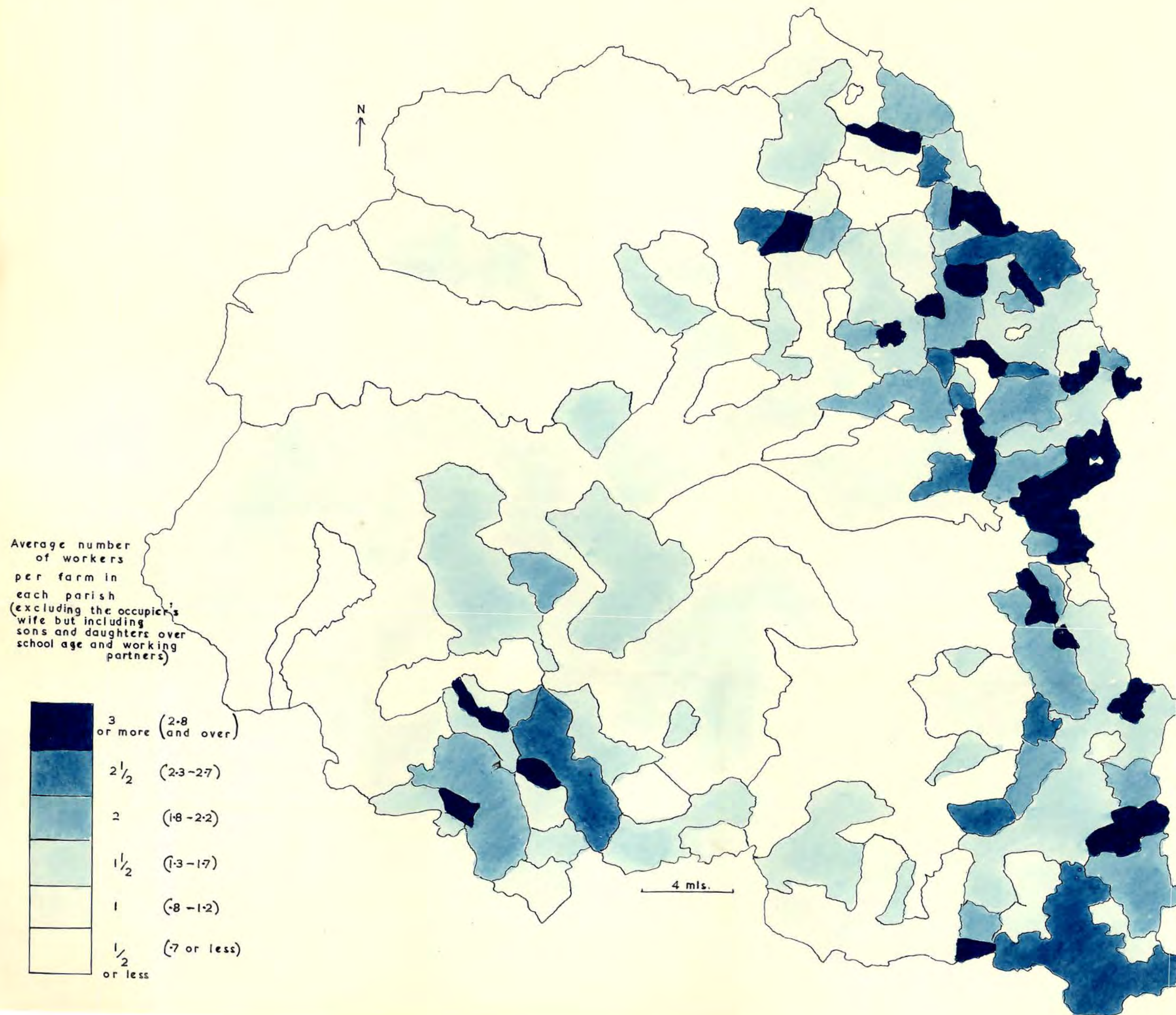
# RELATIONS BETWEEN THE ARABLE REGIONS & LAND MAINLY IN FARM HOLDINGS

53





## LABOUR



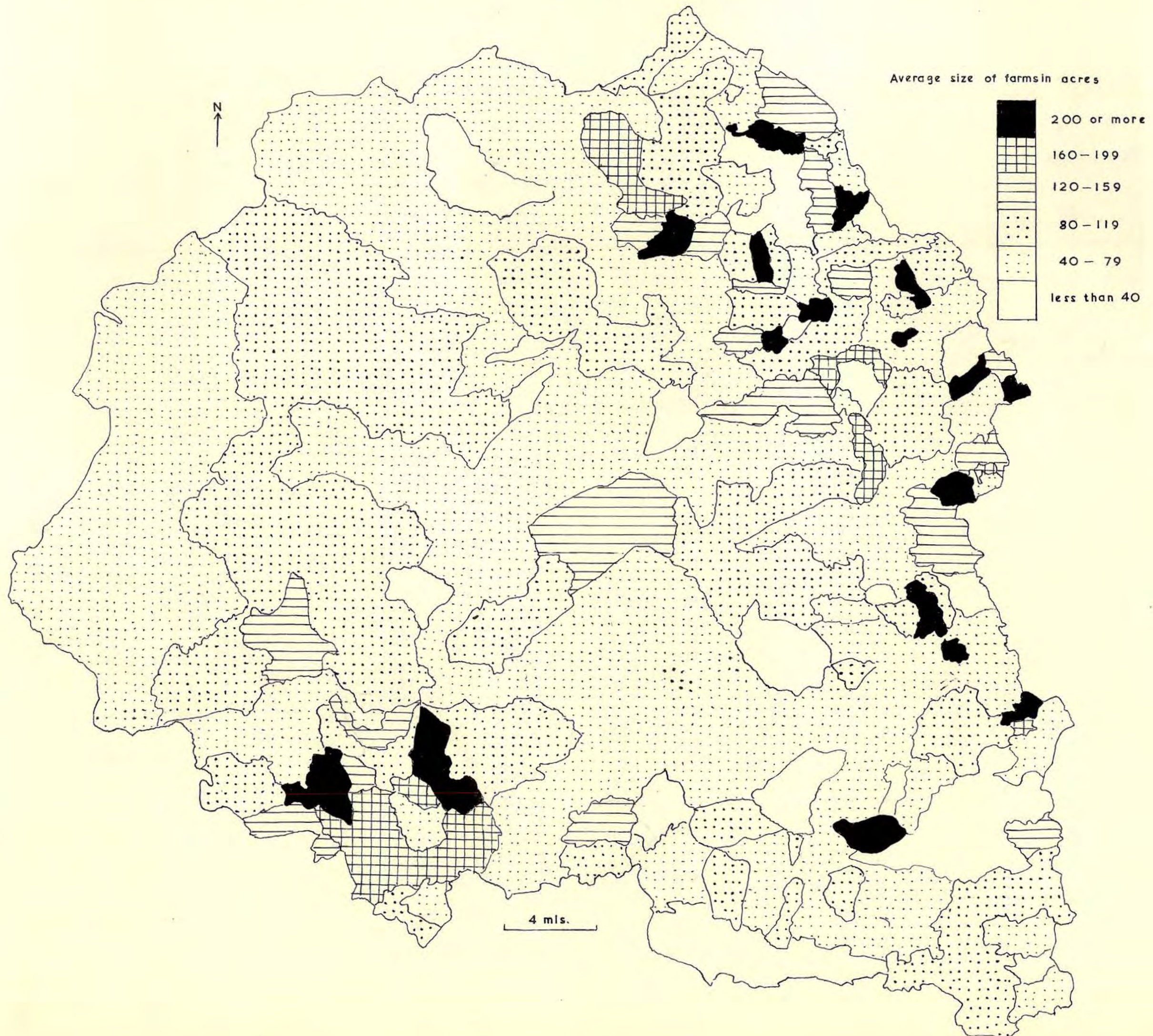


# RELATIONS BETWEEN THE ARABLE REGIONS & DISTRIBUTION OF AVAILABLE LABOUR SUPPLIES

55







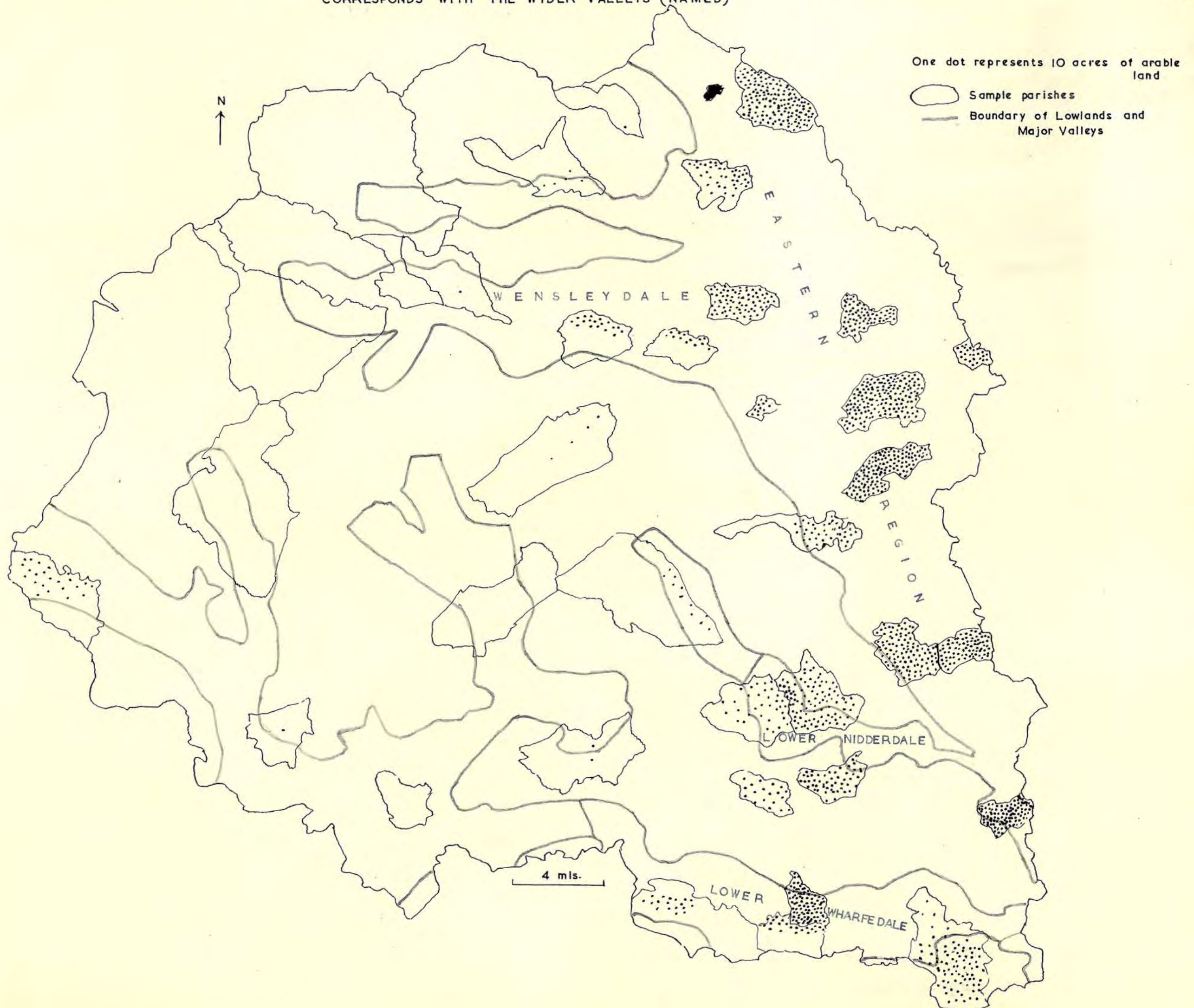


# THE DISTRIBUTION OF ARABLE CULTIVATION IN 1870 (SAMPLE PARISHES)

57

NOTE THAT THE WESTWARD SPREAD OF ARABLE CULTIVATION INTO THE PENNINES  
CORRESPONDS WITH THE WIDER VALLEYS (NAMED)

STAT. APP. 20





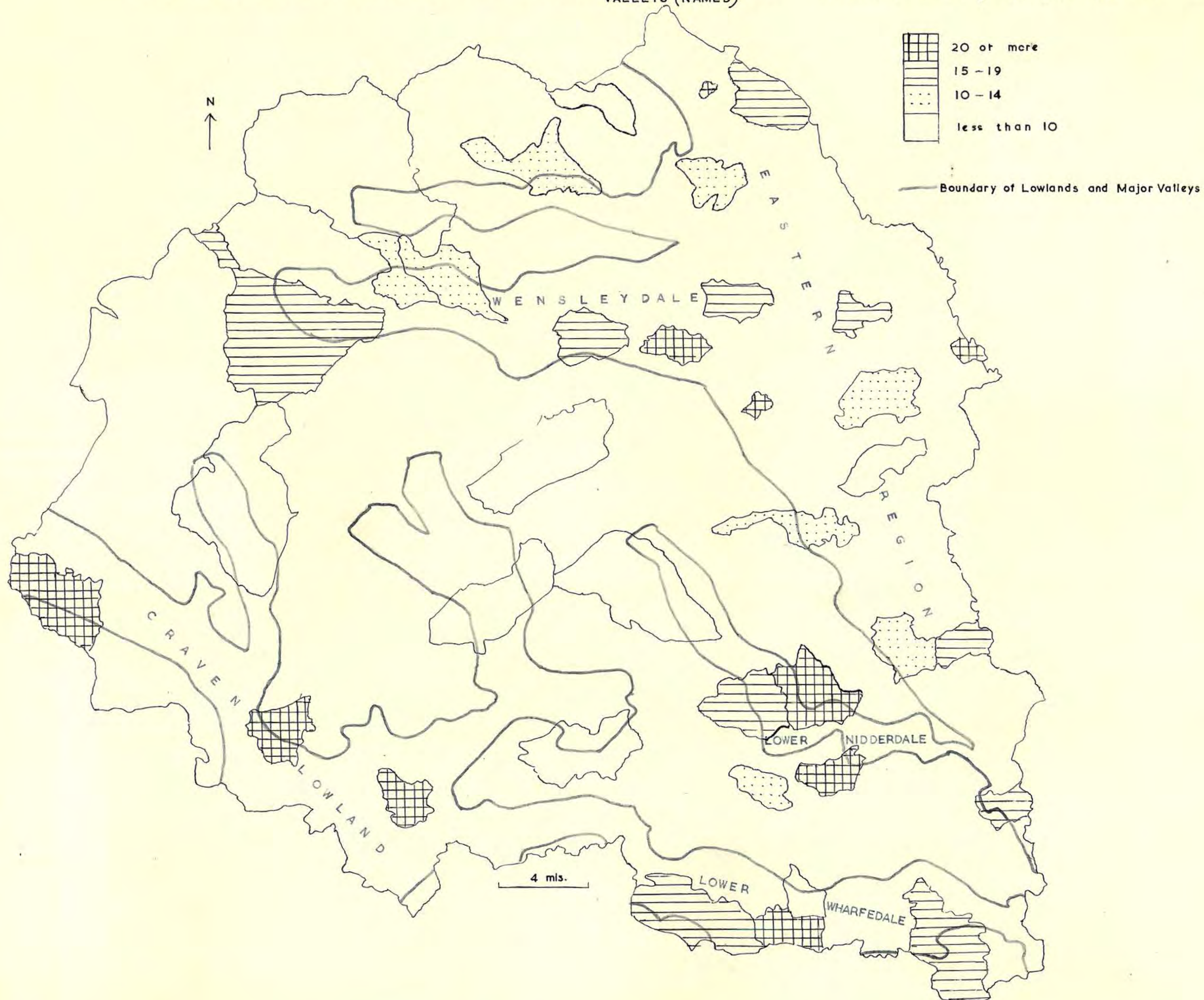
# CATTLE DENSITY IN 1870 (SAMPLE PARISHES)

58

STAT. APP. 20

NOTE HIGHER DENSITIES CORRESPOND WITH LOWLANDS AND WIDER MAJOR VALLEYS (NAMED)

Numbers of cattle (all types) per 100 acres



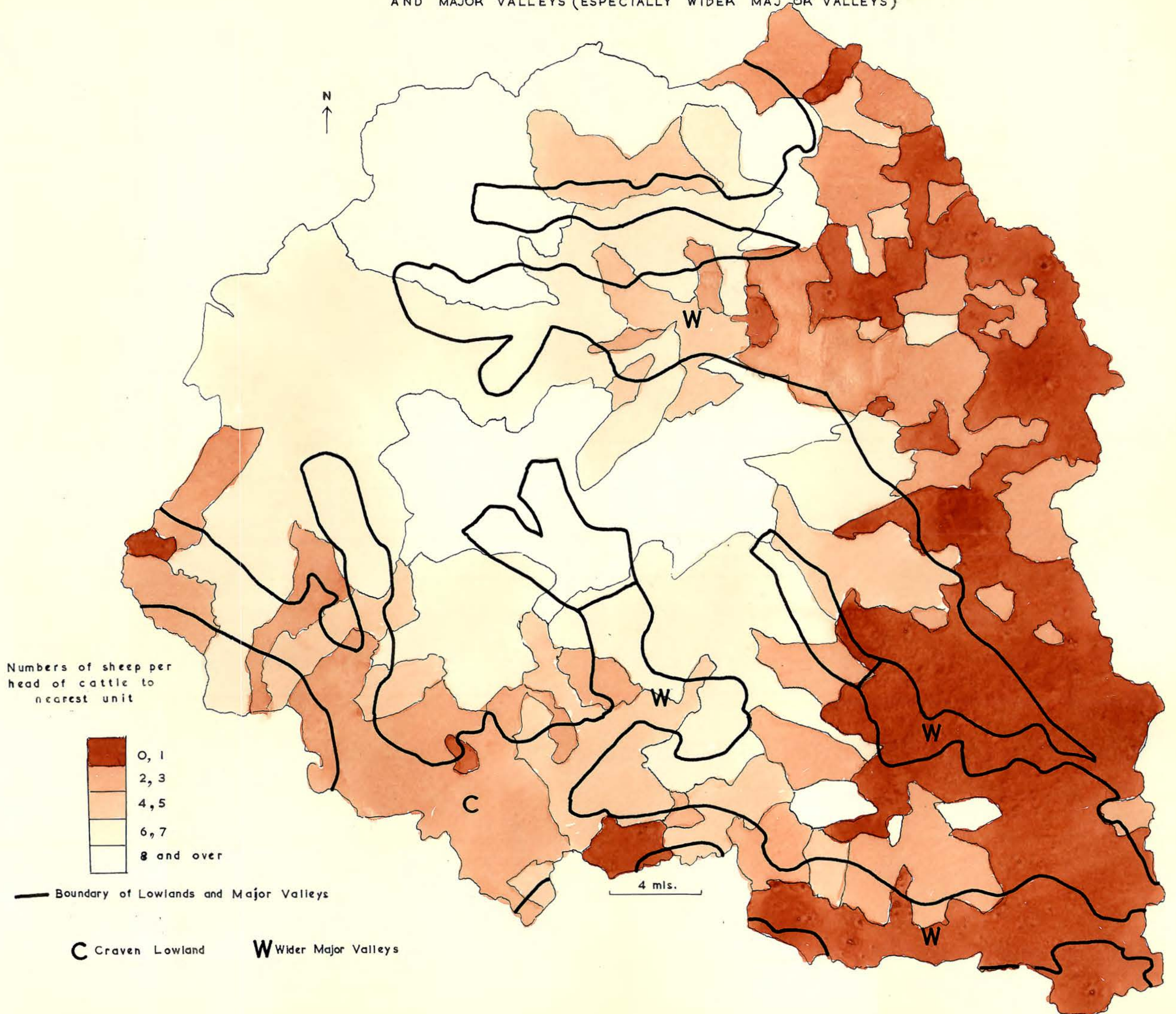


# CATTLE - SHEEP RATIOS - 1948

59

STAT APP 24

NOTE GREATER RELATIVE IMPORTANCE OF CATTLE IN LOWLANDS  
AND MAJOR VALLEYS (ESPECIALLY WIDER MAJOR VALLEYS)

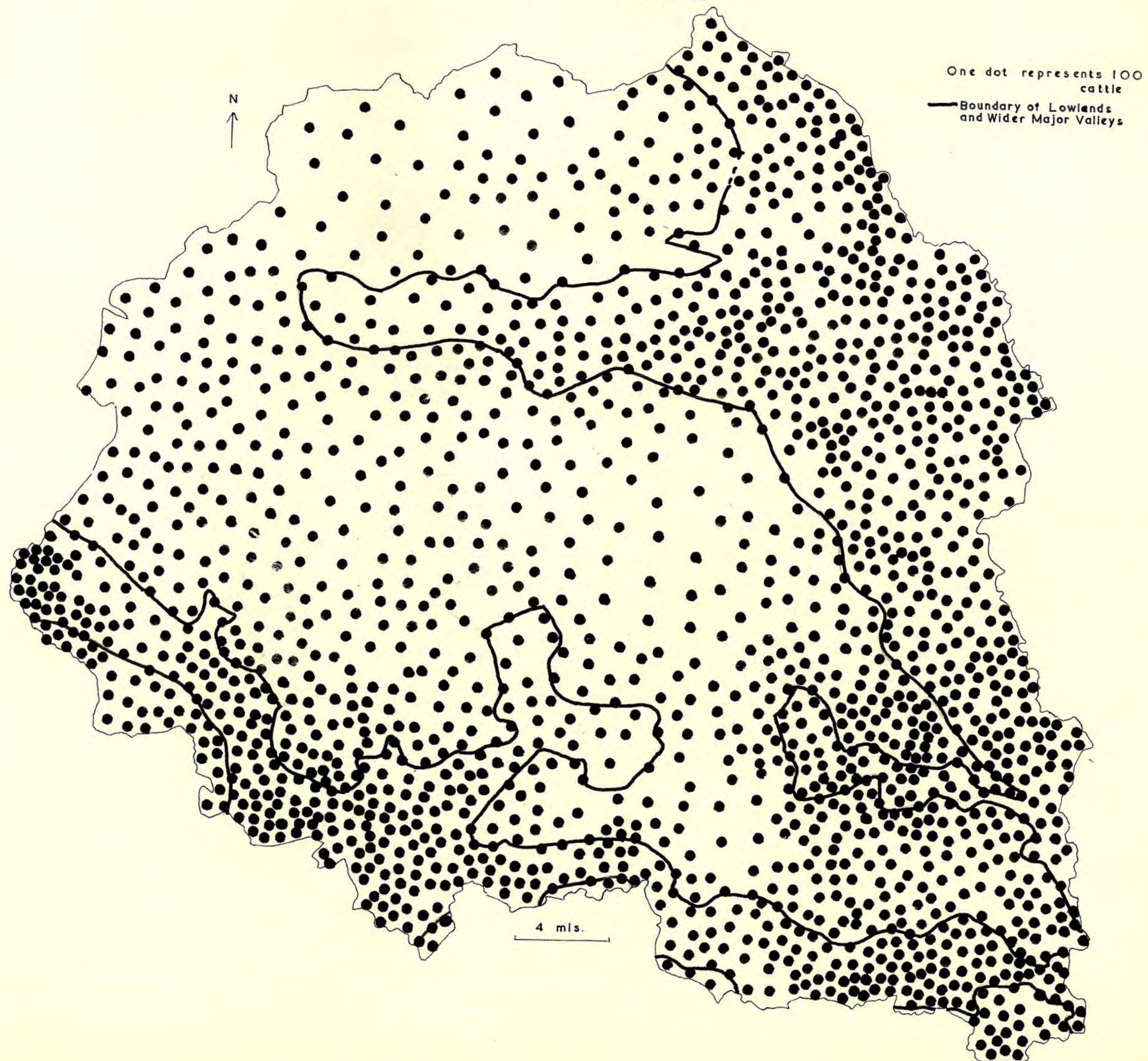




## THE DISTRIBUTION OF CATTLE - 1948

(1)

DOTS SPREAD OUT EVENLY OVER THE PARISHES





# THE CATTLE AREAS (TINTED)

61

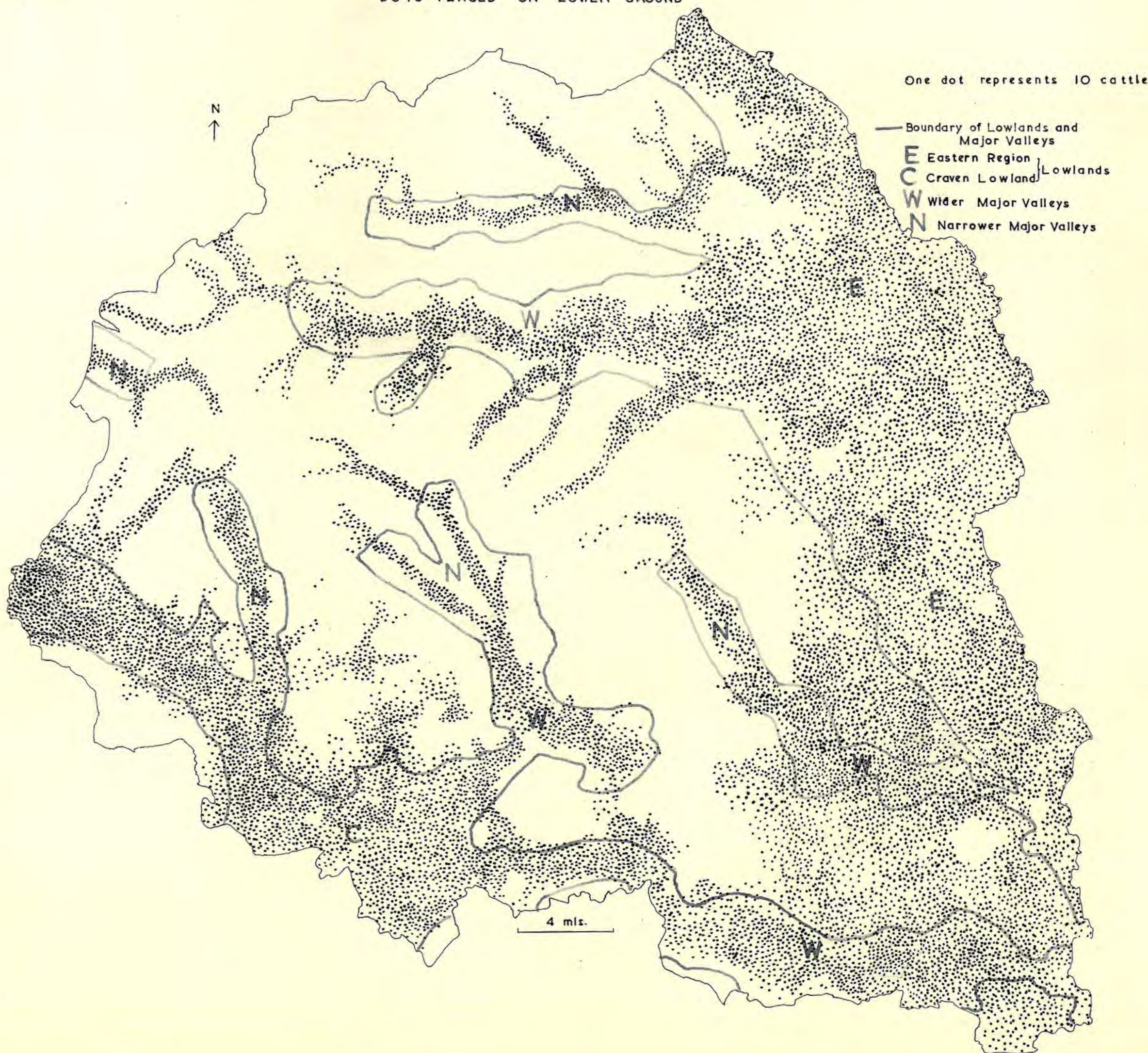
BASED ON MAP 60





DOTS PLACED ON LOWER GROUND

One dot represents 10 cattle



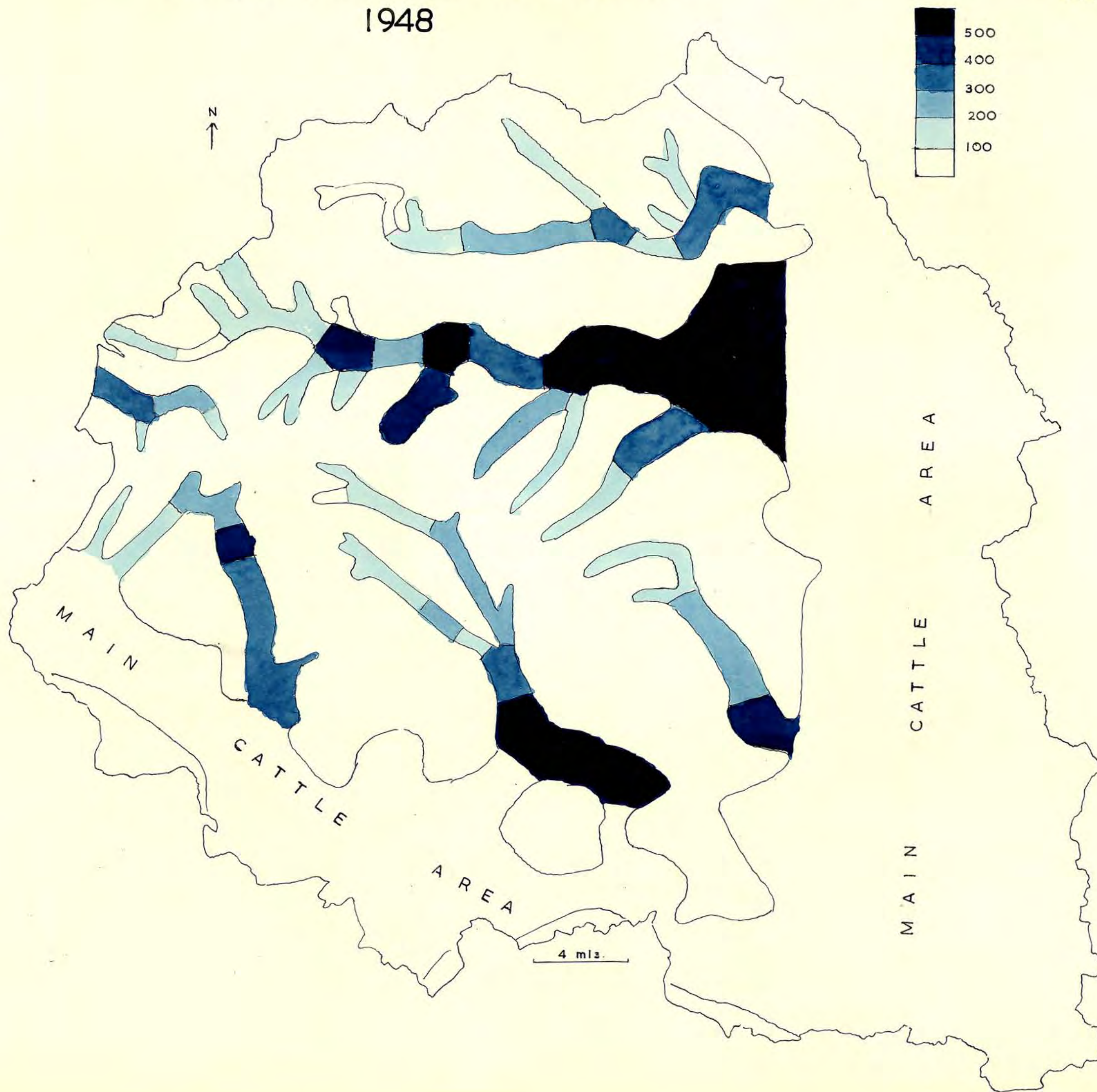


# CATTLE DENSITY IN THE PENNINES

1948

Numbers of cattiz per mile of valley  
see App. 71

63





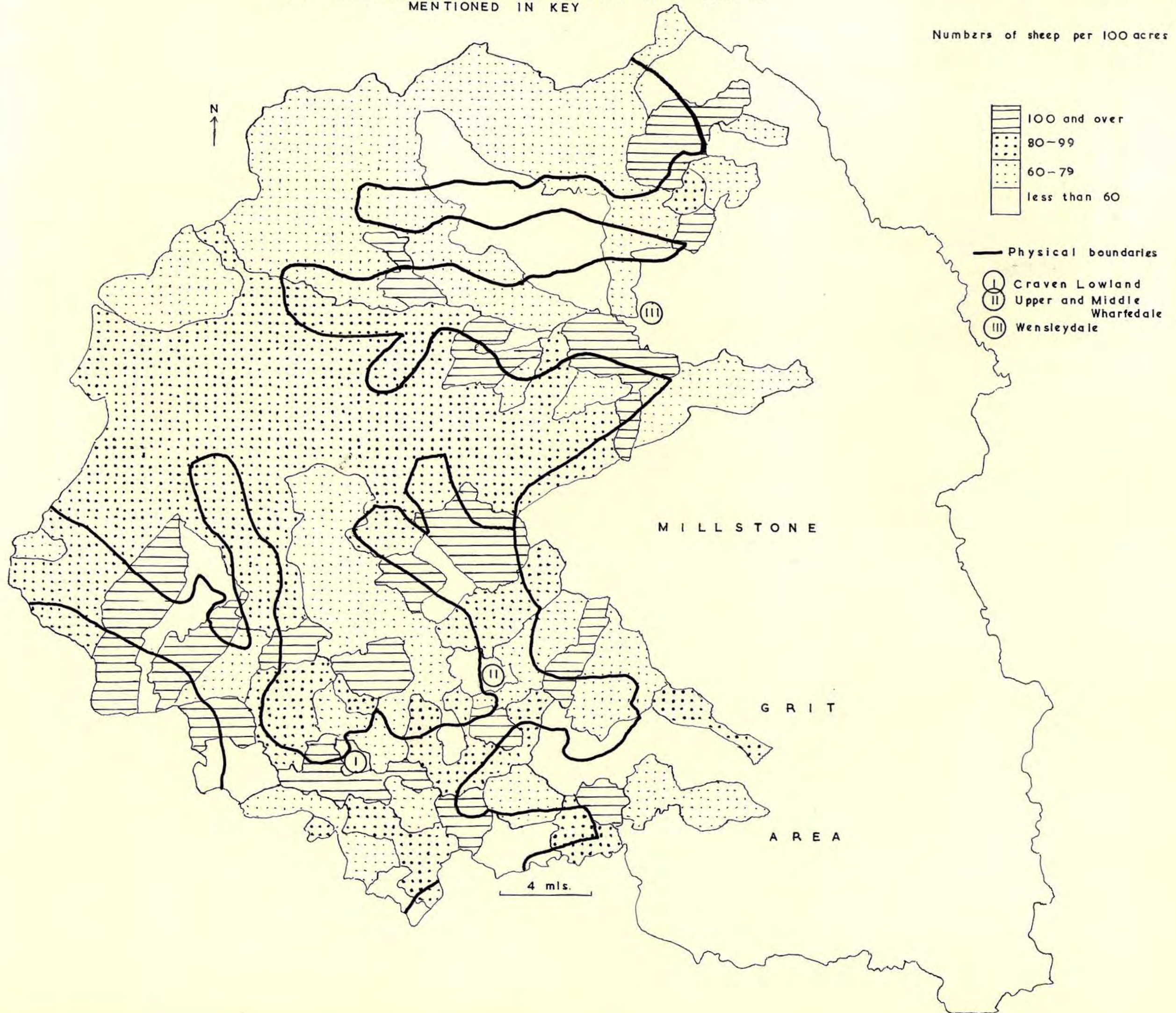
# SHEEP DENSITY - 1948

64

STAT APP 24  
see note 1

NOTE HIGHEST DENSITIES CORRESPOND WITH REGIONS  
MENTIONED IN KEY

Numbers of sheep per 100 acres





# MILK PRODUCTION - 1948

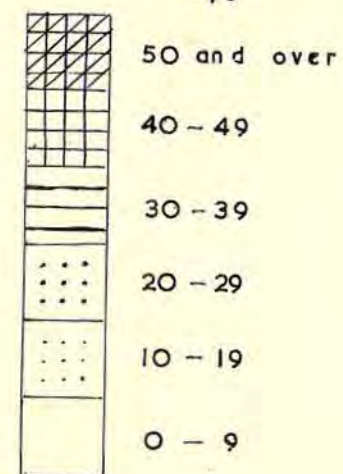
NOTE RELATIONS TO REGIONS MENTIONED IN KEY

Numbers of cattle concerned with milk production as percentages of total numbers of cattle in each parish

65

STAT. APP. 24

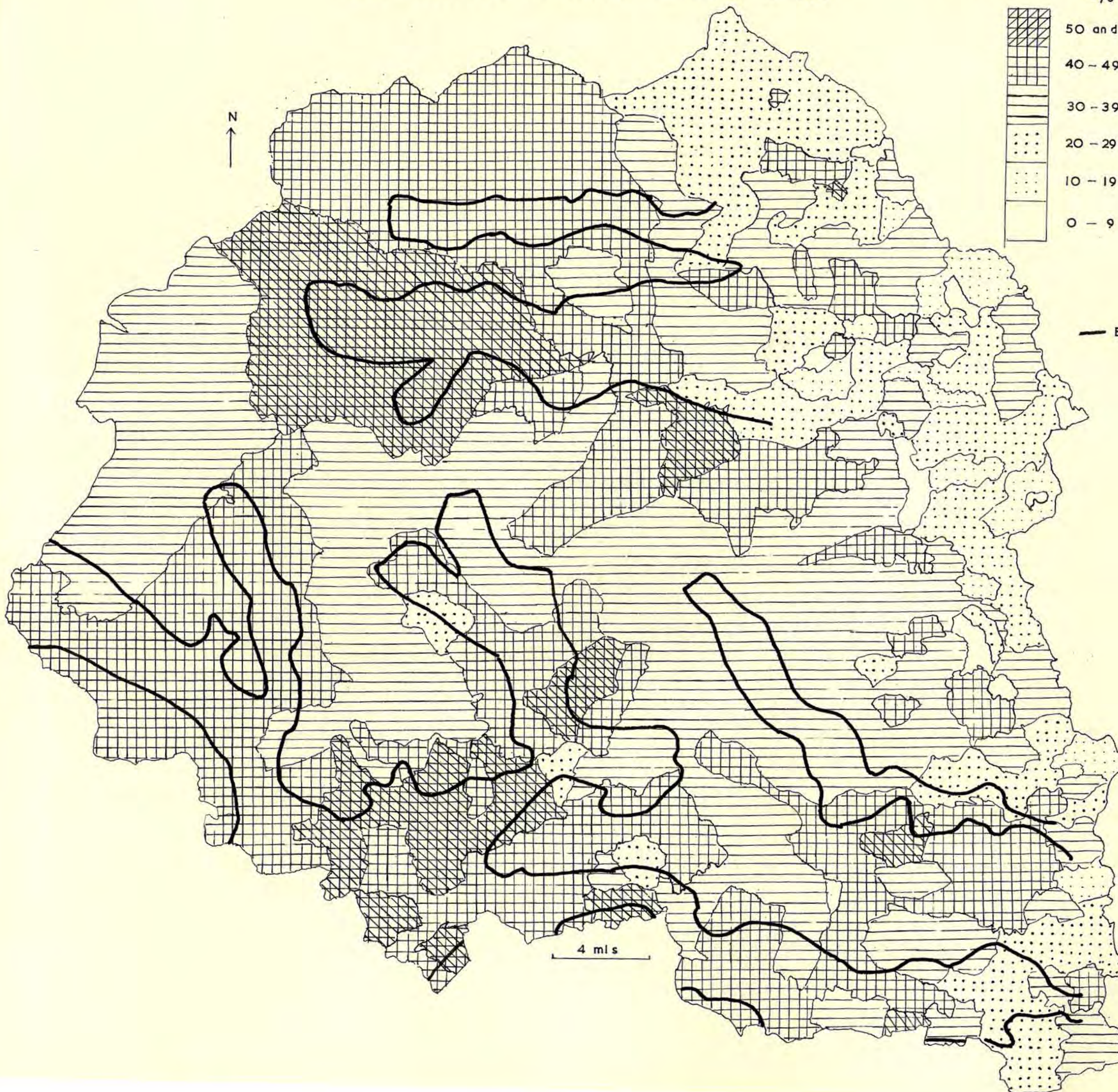
%



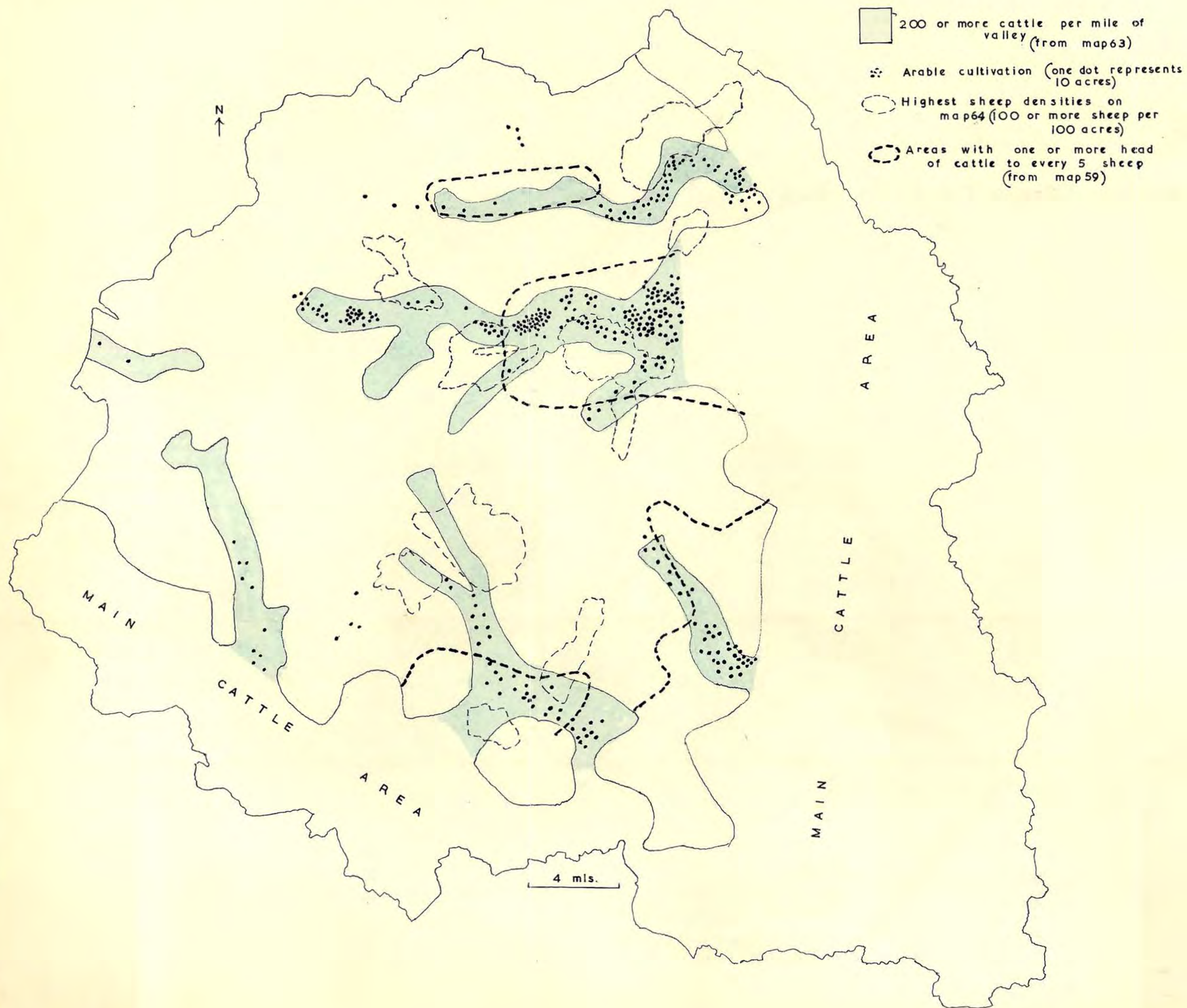
— Boundary of Craven Lowland and Major Valleys

N  
↑

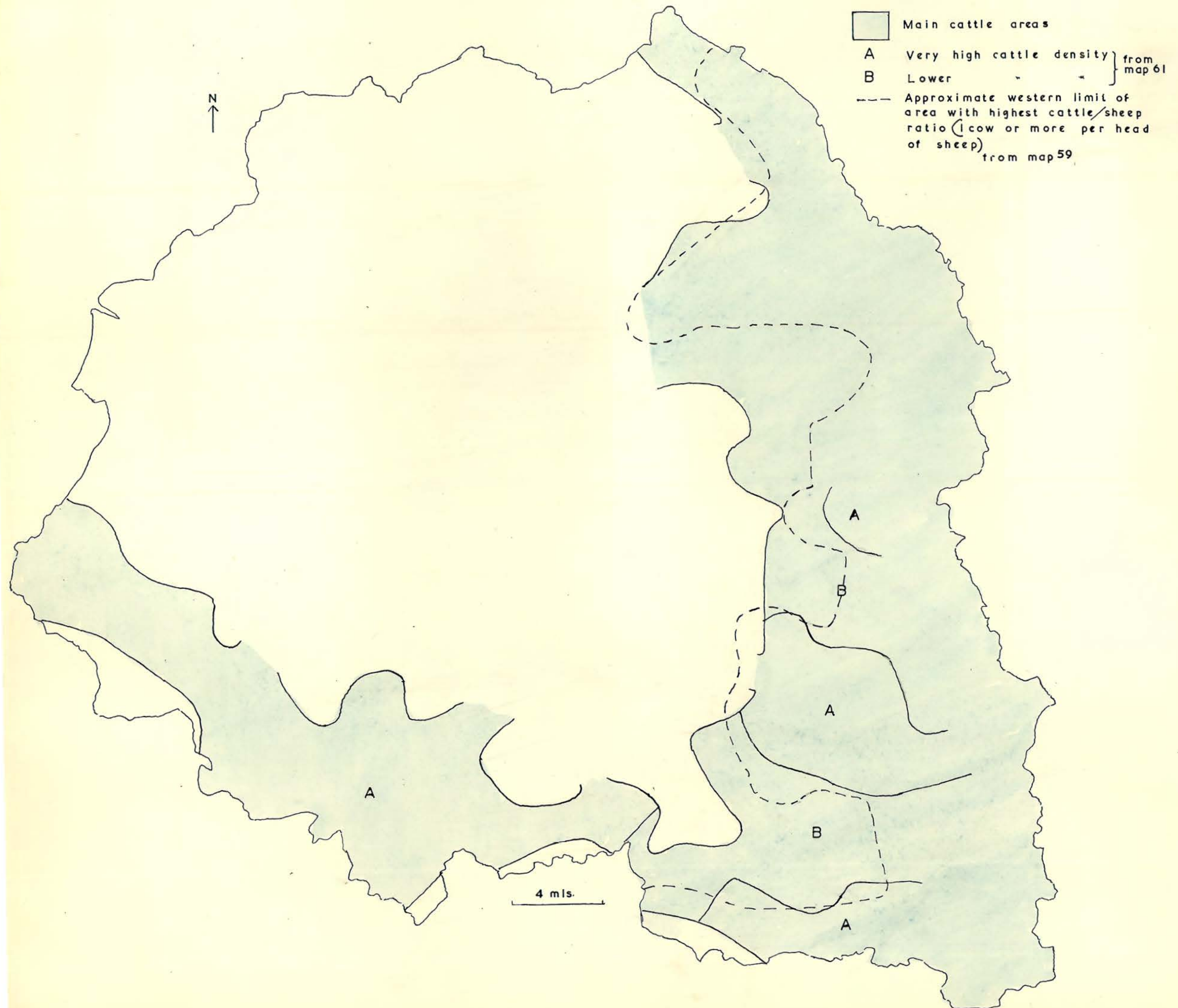
4 mls













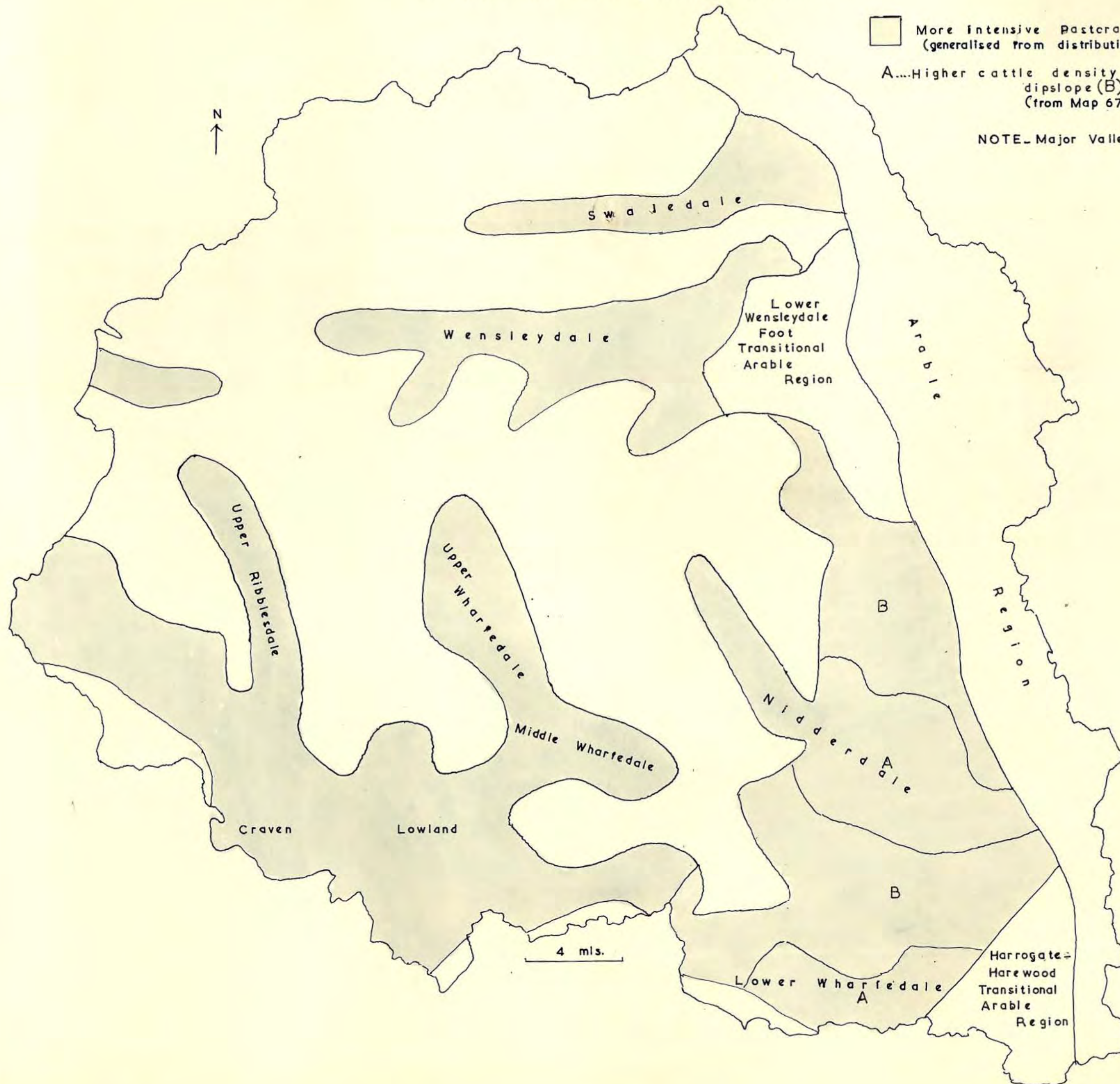
# THE MORE INTENSIVE PASTORAL REGIONS -1948

68

COMPARE WITH MAP 12 (PHYSICAL DIVISIONS)

More Intensive Pastoral Regions  
(generalised from distributions shown on  
Map 66)  
A....Higher cattle density than  
dipslope (B)  
(from Map 67)

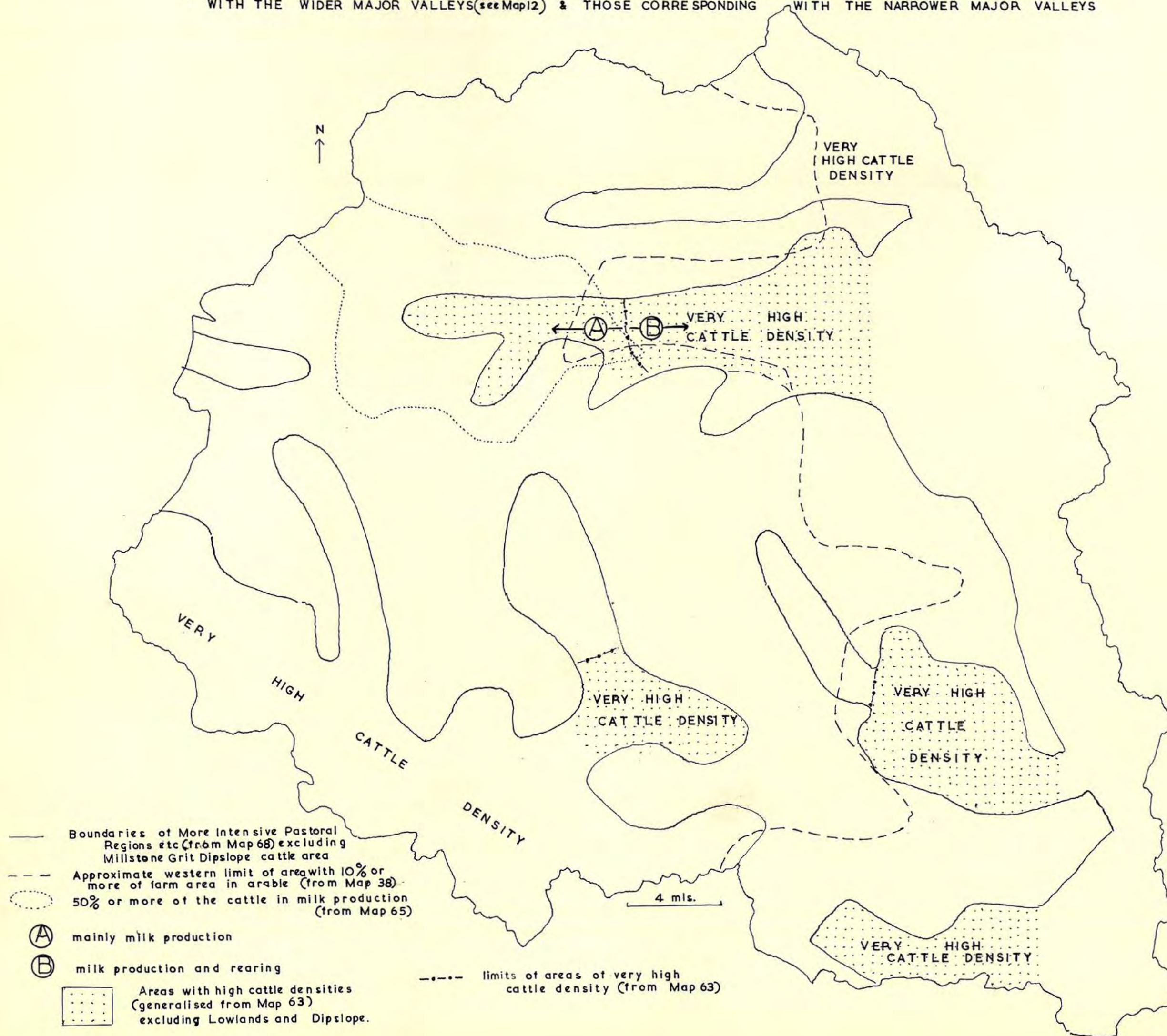
NOTE- Major Valleys are named





## THE MORE INTENSIVE PASTORAL REGIONS: SUBDIVISIONS

NOTE CONTRASTS BETWEEN THE MORE INTENSIVE PASTORAL REGIONS CORRESPONDING APPROXIMATELY WITH THE WIDER MAJOR VALLEYS (see Map 12) & THOSE CORRESPONDING WITH THE NARROWER MAJOR VALLEYS

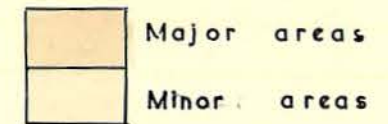




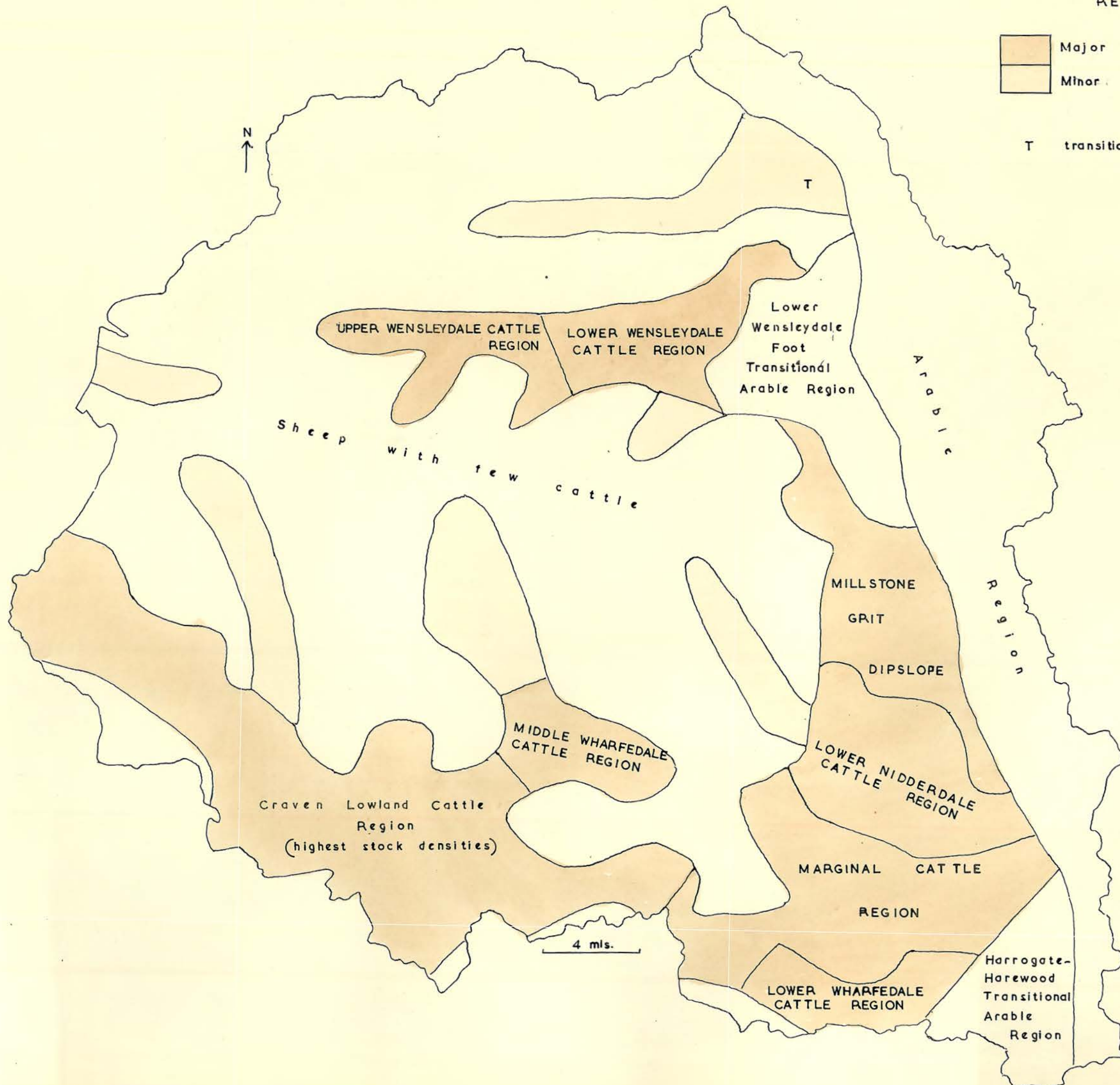
# FARMING REGIONS - 1948

COMPARE WITH MAP 12 - PHYSICAL DIVISIONS

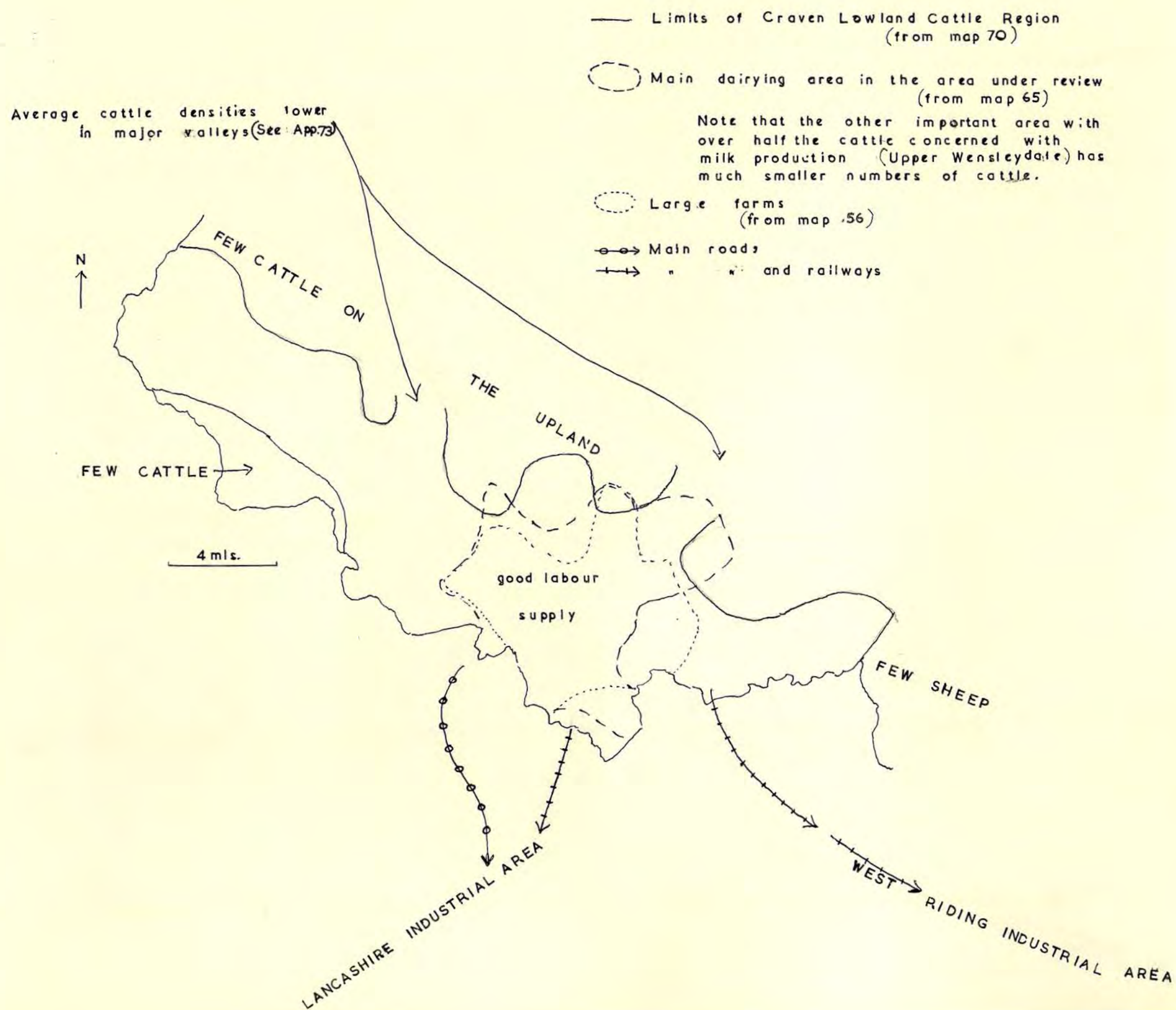
MORE INTENSIVE PASTORAL  
REGIONS



T transitional region



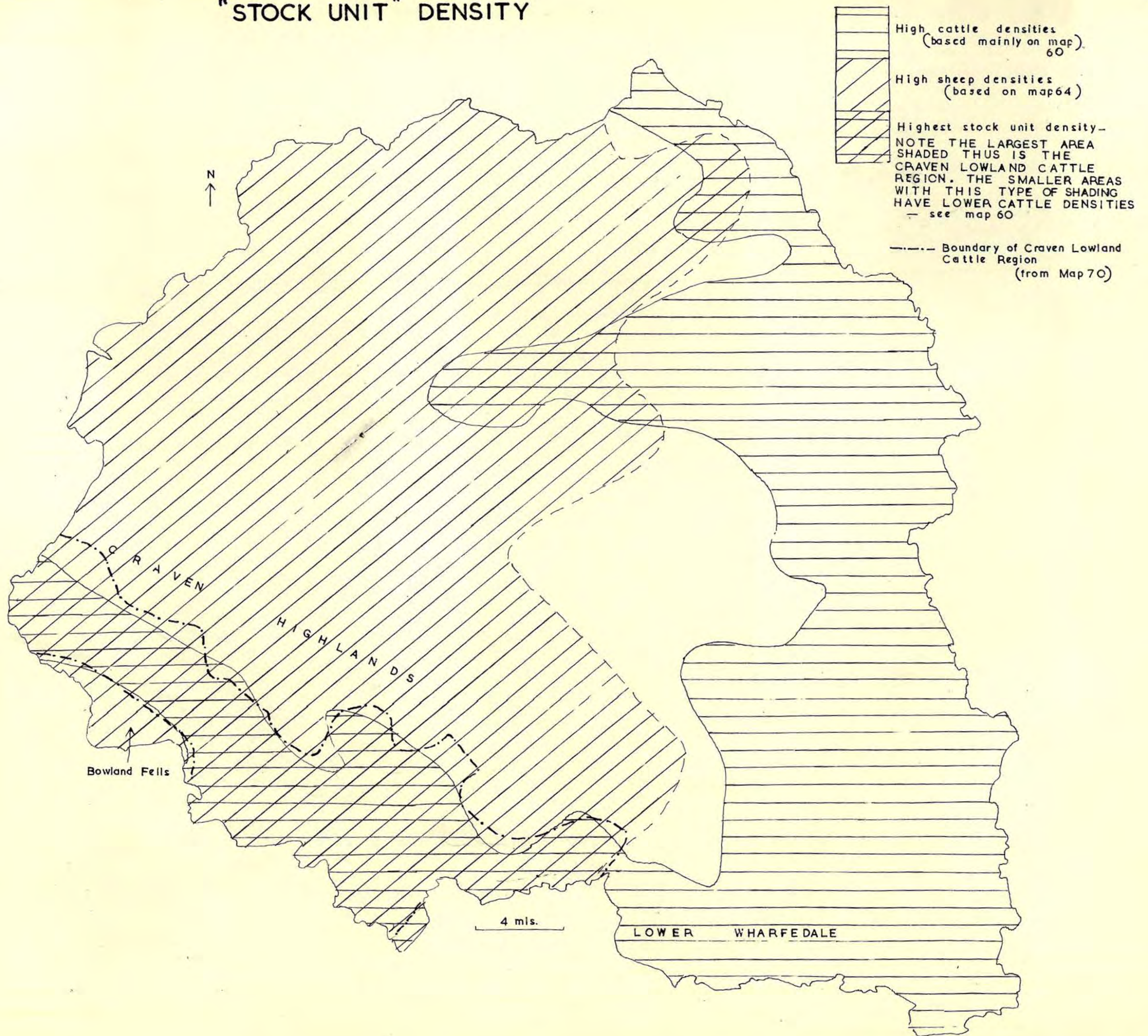






# "STOCK UNIT" DENSITY

72

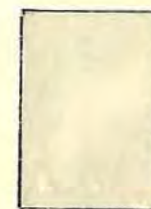




# LAND CLASSIFICATION

73

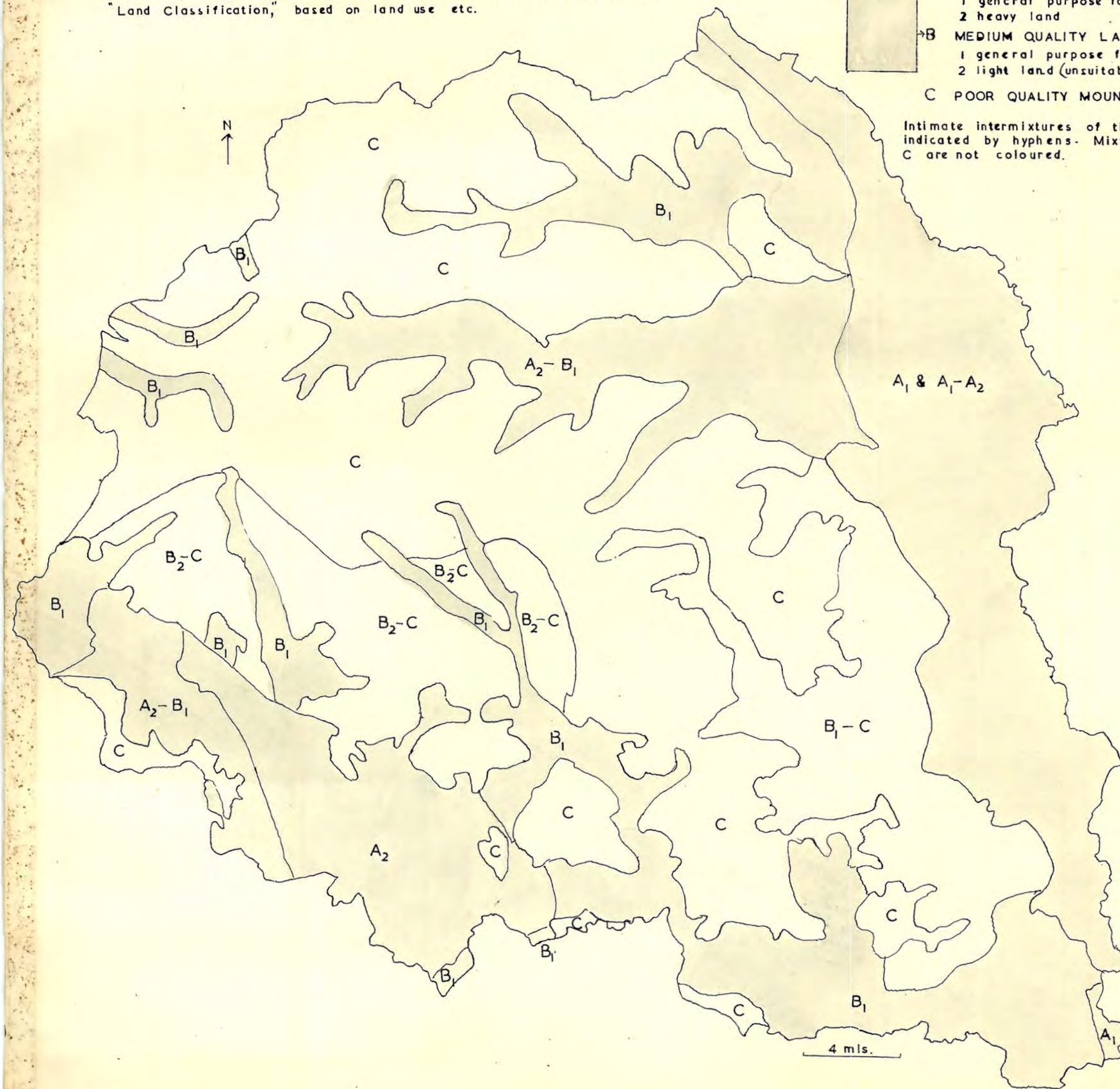
according to quality. Enlarged from the 10 miles to 1 inch sheets  
"Land Classification," based on land use etc.



- A GOOD QUALITY LAND
  - 1 general purpose farmland
  - 2 heavy land
- B MEDIUM QUALITY LAND
  - 1 general purpose farmland
  - 2 light land (unsuitable for ploughing)

C POOR QUALITY MOUNTAIN LAND & MOORLAND

Intimate intermixtures of these types are indicated by hyphens. Mixtures including C are not coloured.





# THE DISTRIBUTION OF DOMESDAY VILLS

VILLS ARE PLACES LISTED IN STAT. APP. 12





# THE DISTRIBUTION OF VILLS IN 1316 A.D.

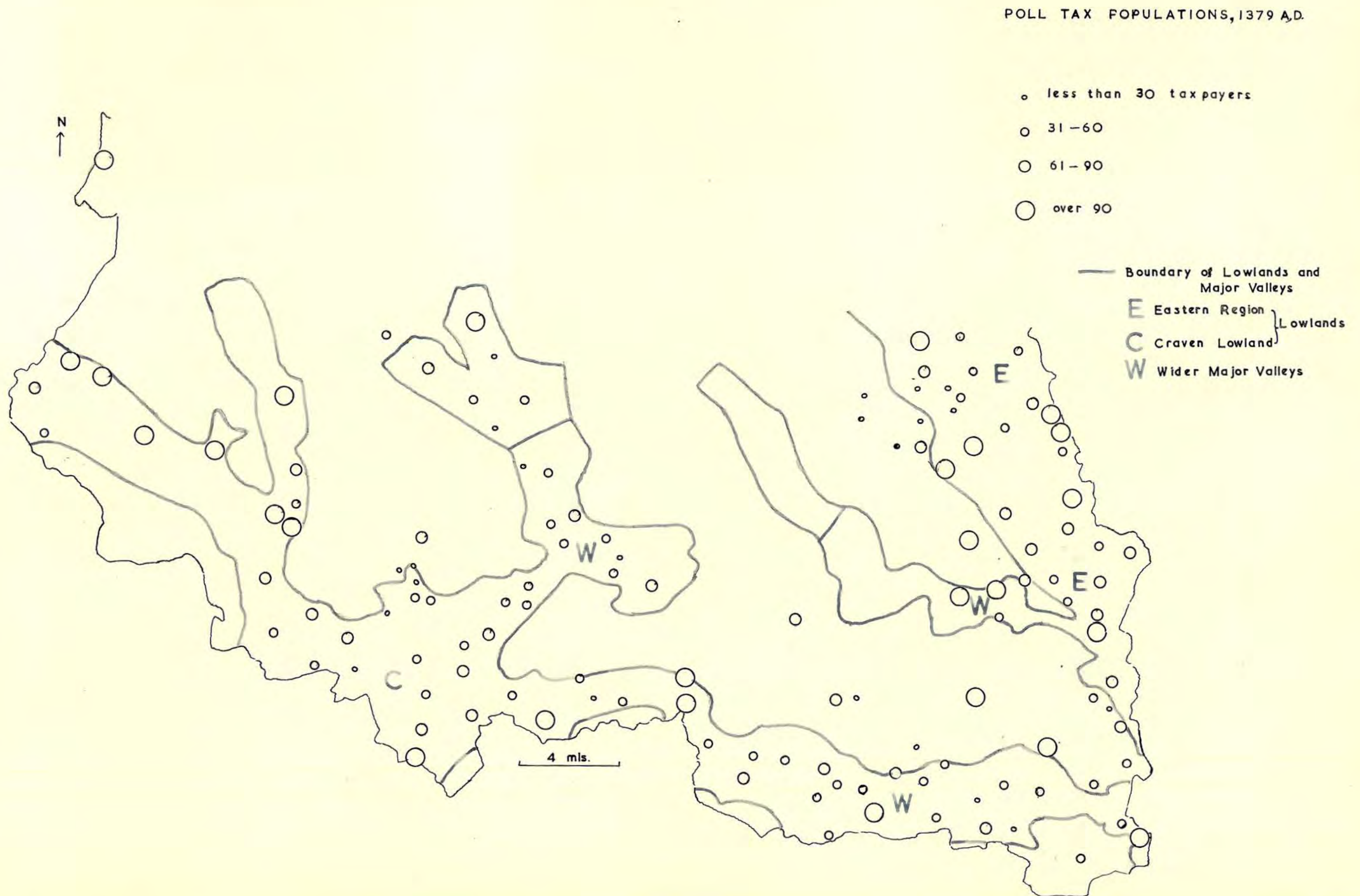
75

STAT. APR. 28

100  
BASED ON NOMINA VILLARUM



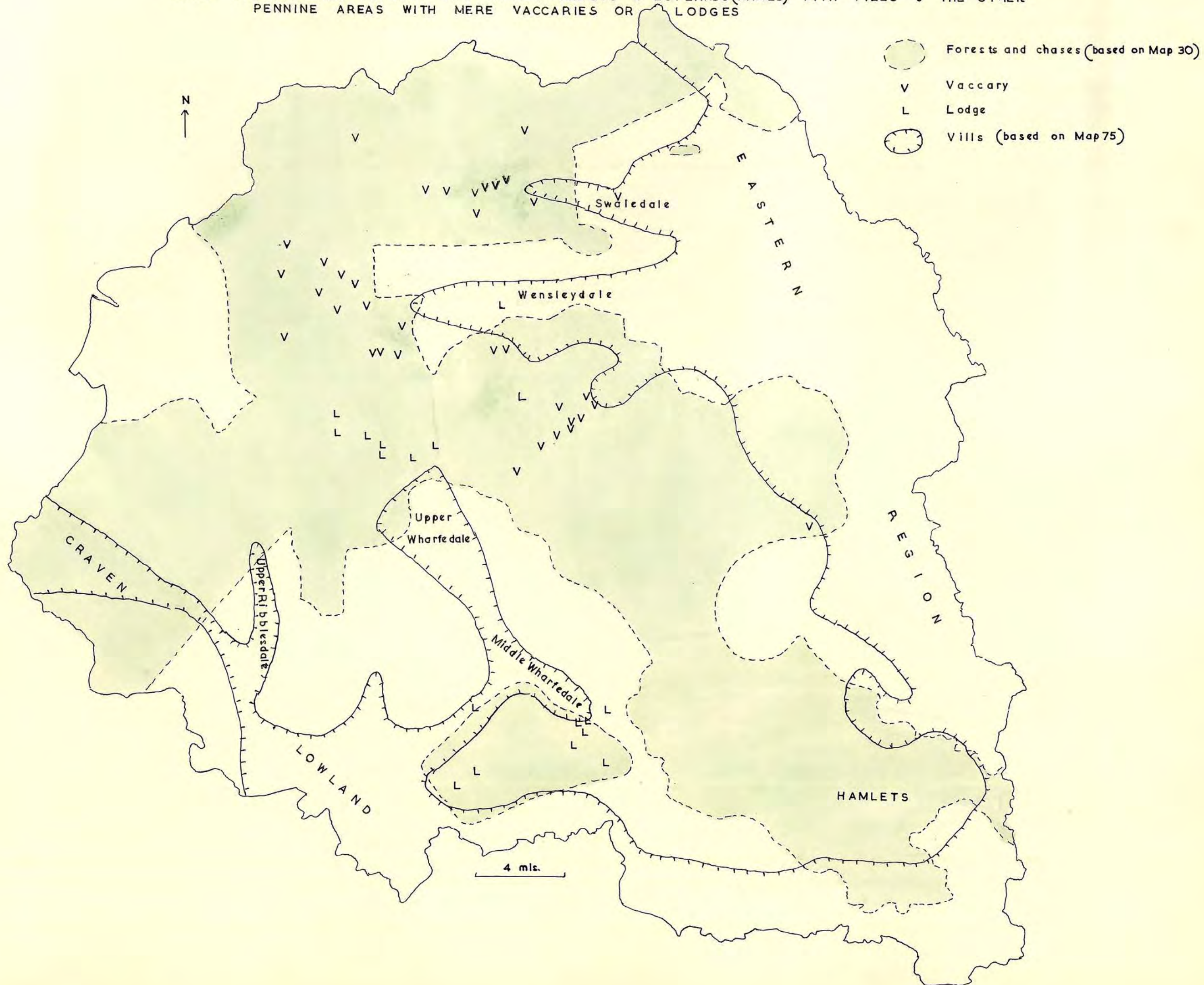




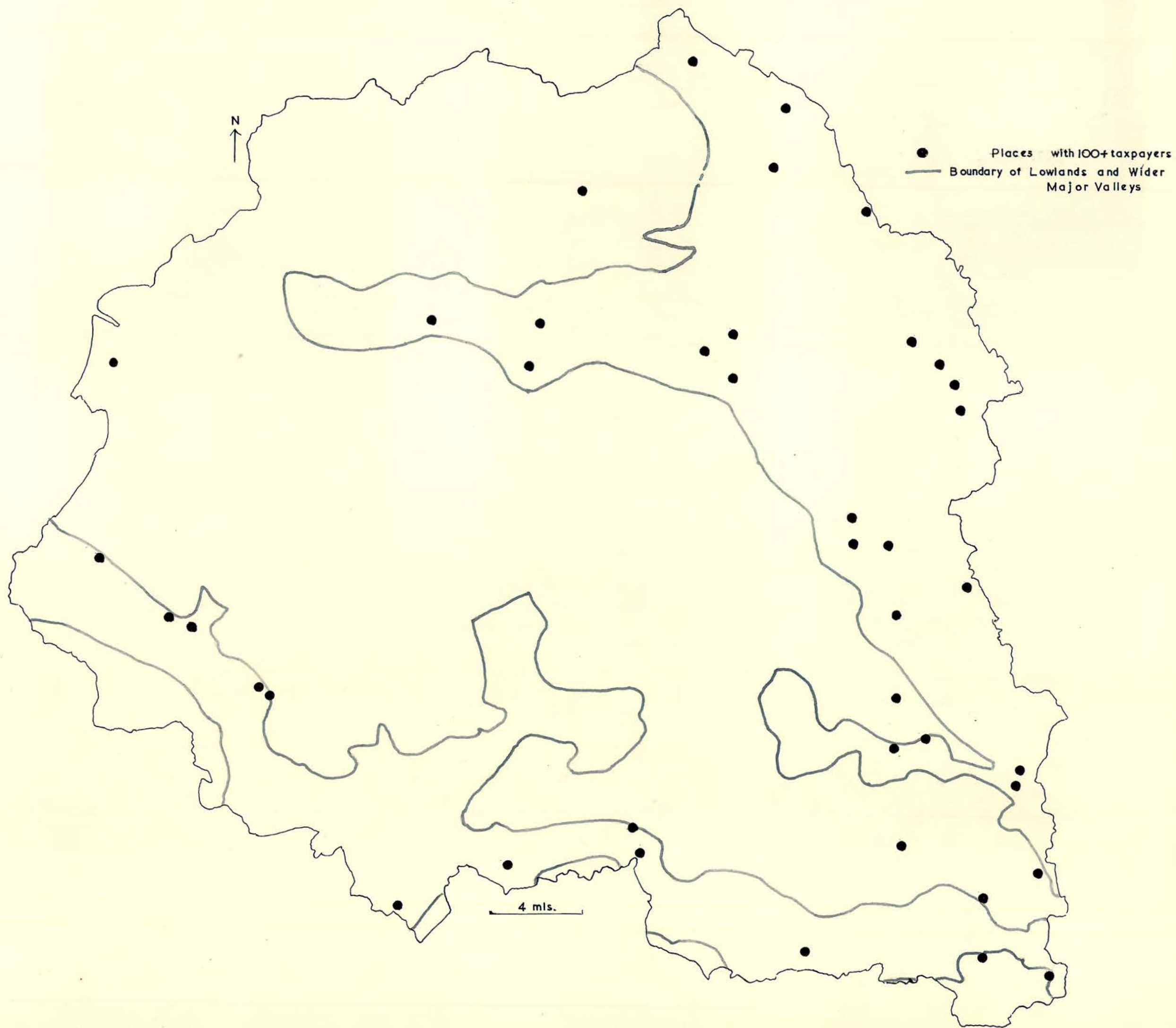


# THE REGIONAL PATTERN OF MEDIEVAL SETTLEMENT

NOTE THE CONTRAST BETWEEN THE MAJOR VALLEYS & LOWLANDS (NAMED) WITH VILLS & THE OTHER PENNINE AREAS WITH MERE VACCARIES OR LODGES









## & THE LORDSHIPS OF MIDDLEHAM & RICHMOND

(a) ABOUT 1300 A.D.

from Map 77

(b) EARLY 17 TH. CENTURY

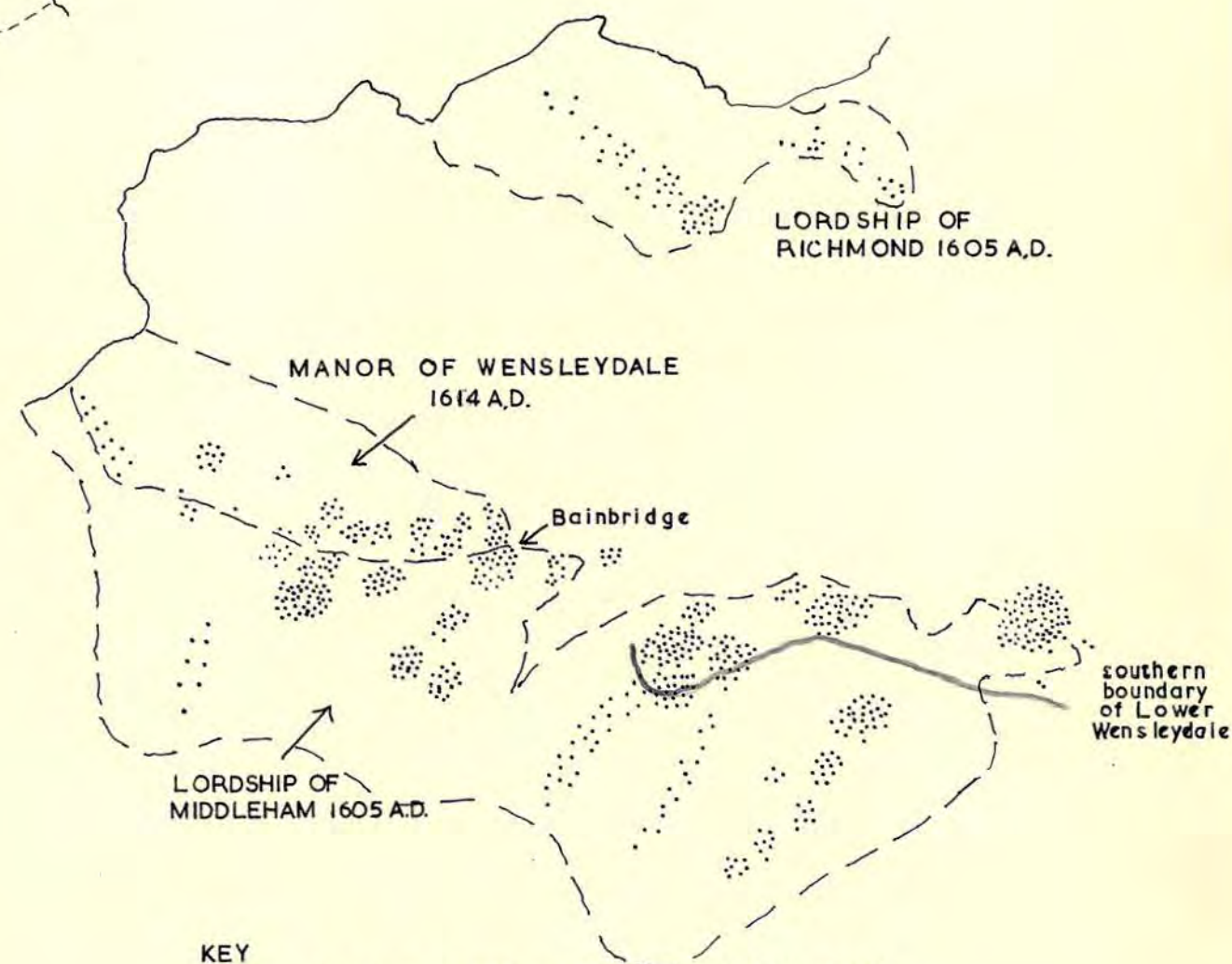
ACCORDING TO YORKSHIRE SURVEYS<sup>77</sup>  
Stat.App. 32

NOTE POPULATION INCREASE SUGGESTED



KEY  
V vaccary  
ie. hamlet or  
isolated farm

L lodge



KEY  
○ areas surveyed excluding outlying parts  
● one dot represents one house

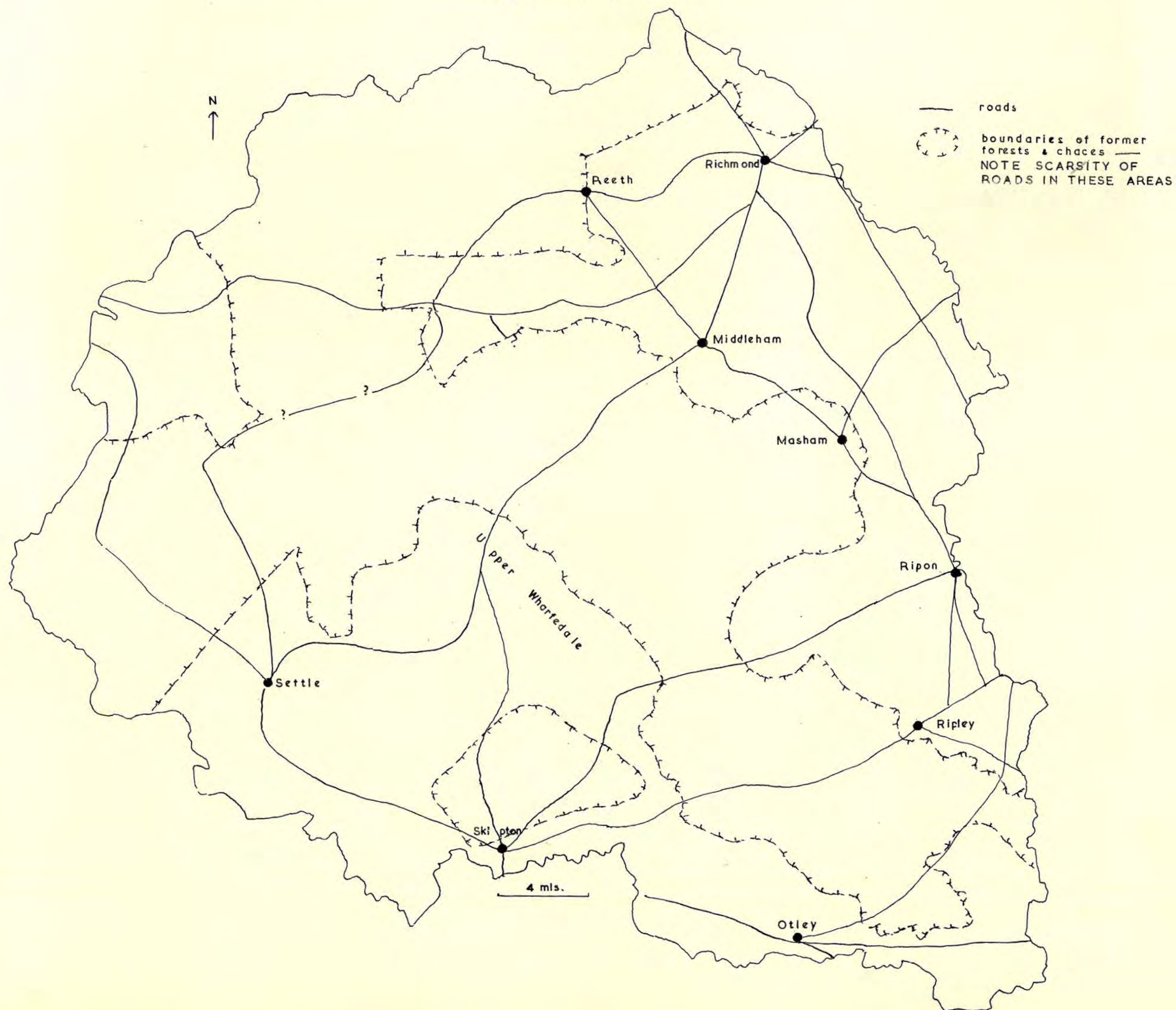
NOTE HAMLETS HAVE BECOME VILLAGES  
Surveys not comprehensive—actual sizes of settlements  
would be even larger than this map suggests.



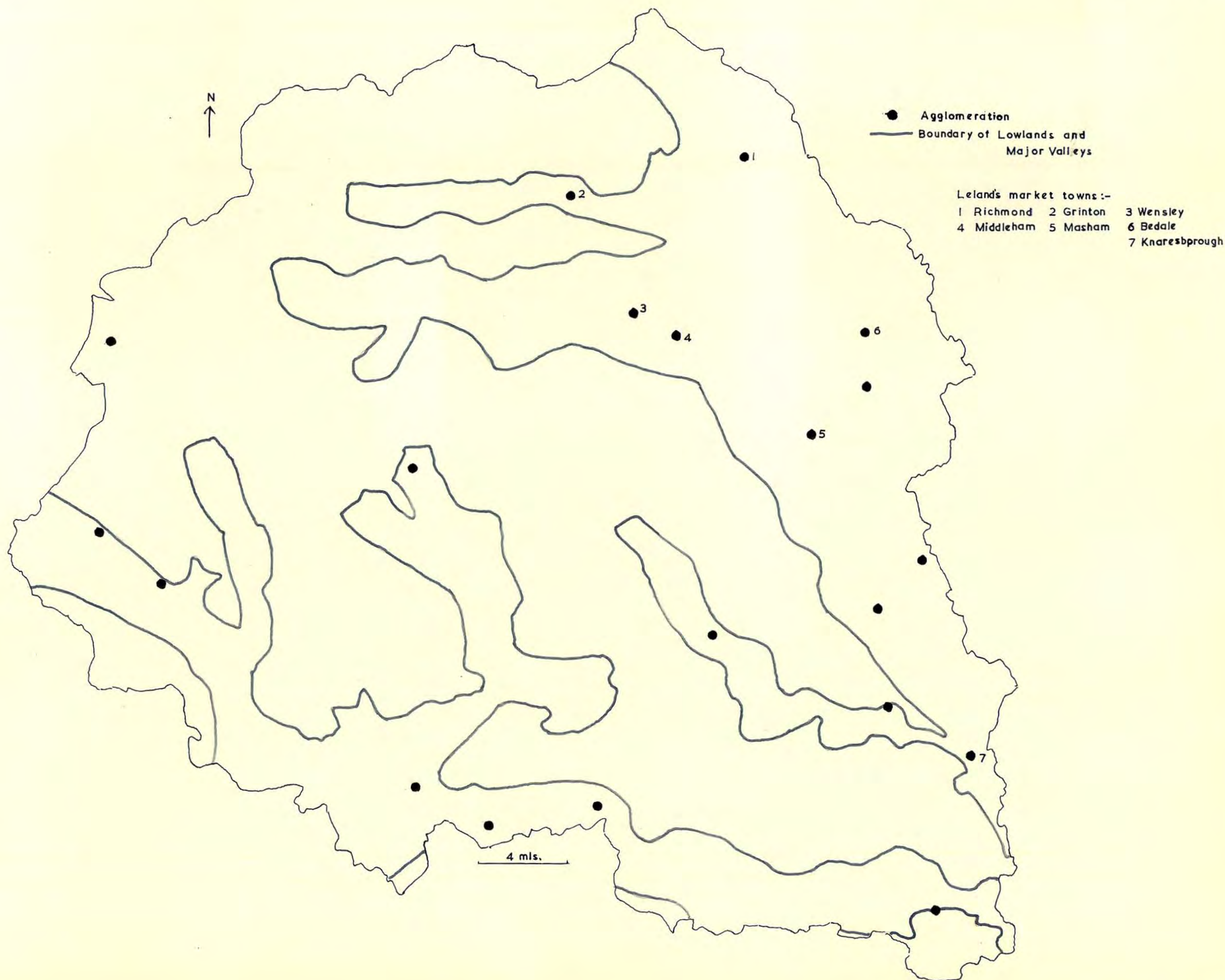
# ROADS ACCORDING TO MOLL'S MAP OF 1724 A.D.

80

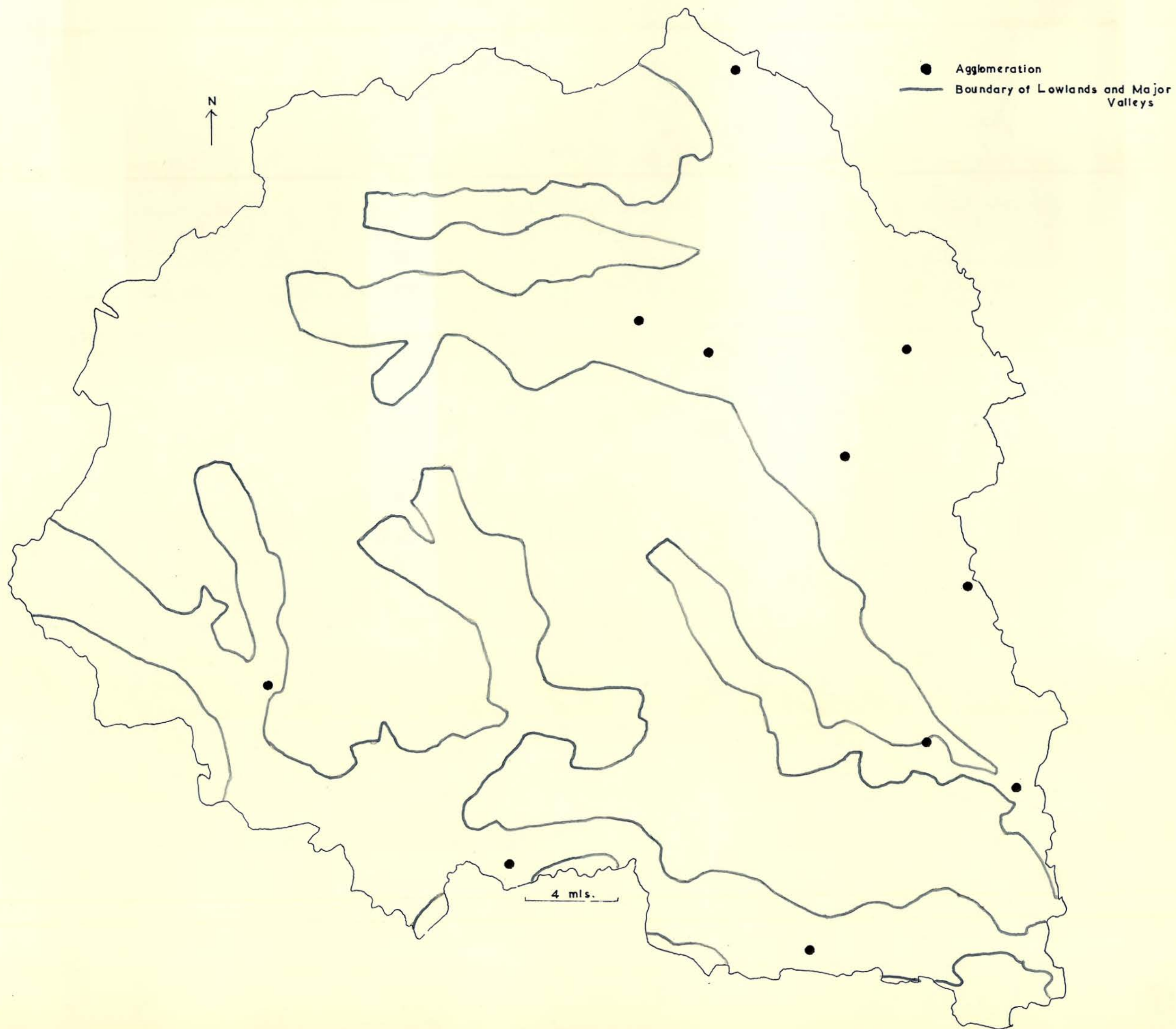
108 (plates XIV, XVI)









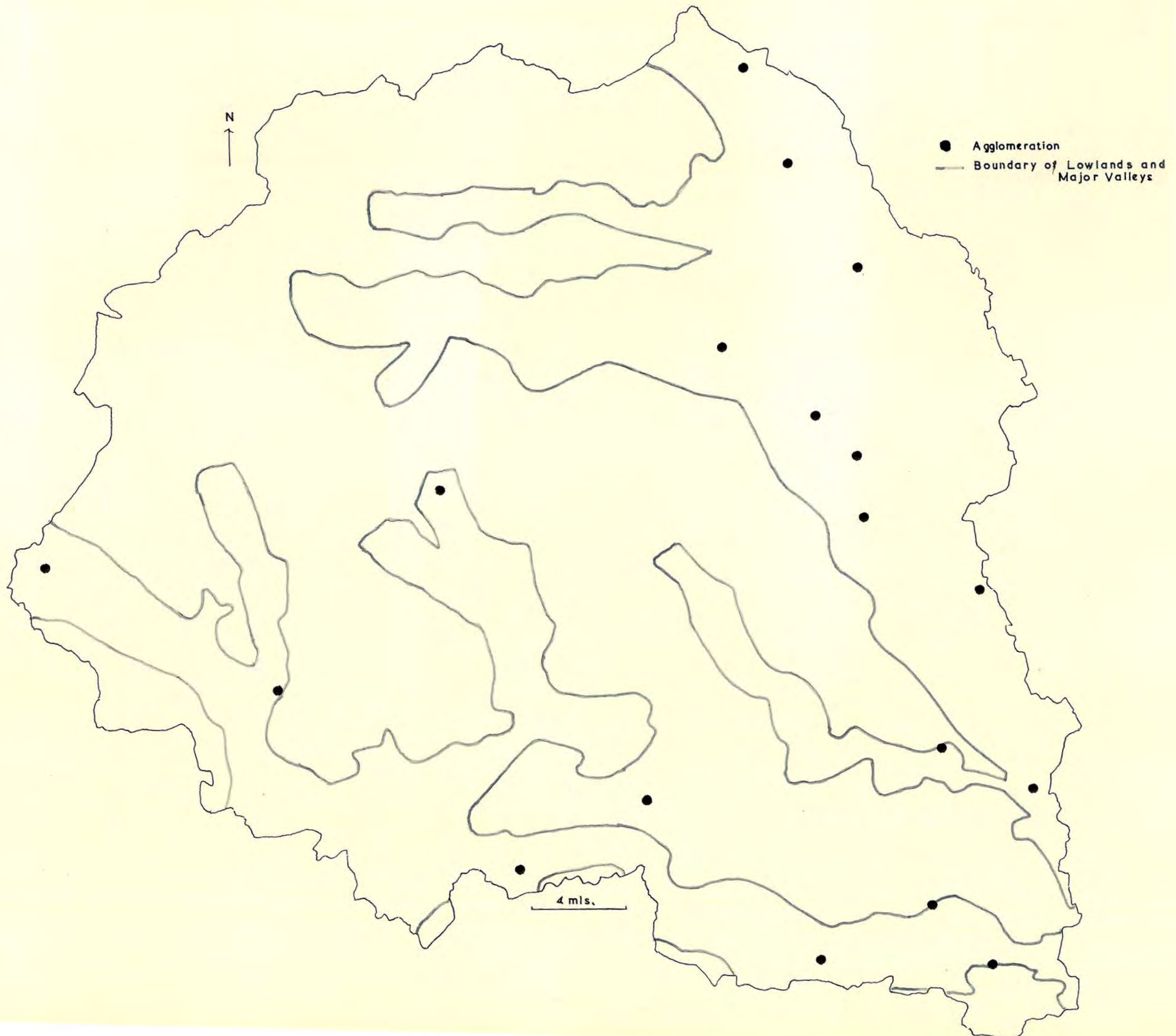




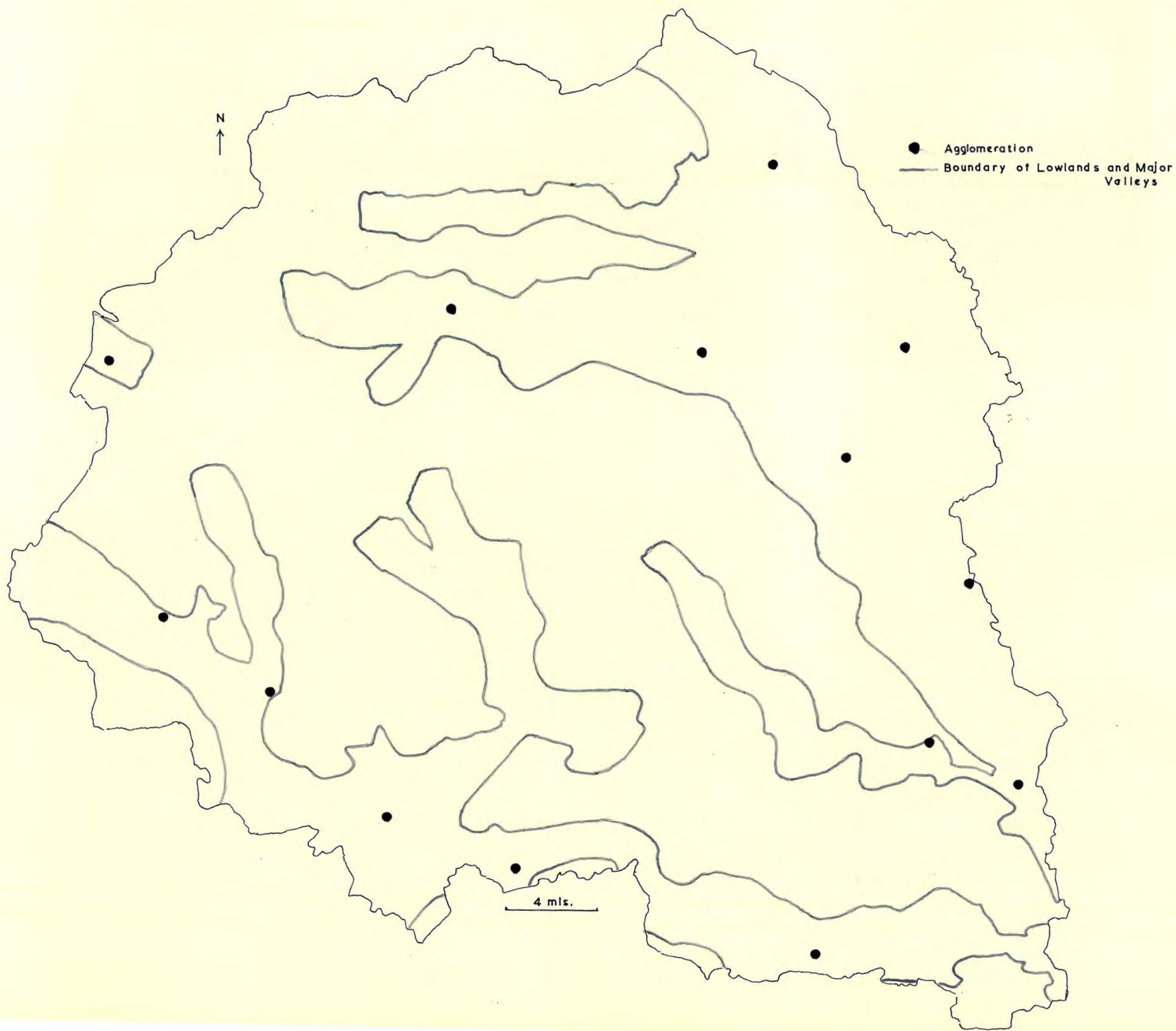
# AGGLOMERATIONS MARKED ON EARLY MAPS - (III) - 1626,1643

83

STAT. APR. 35





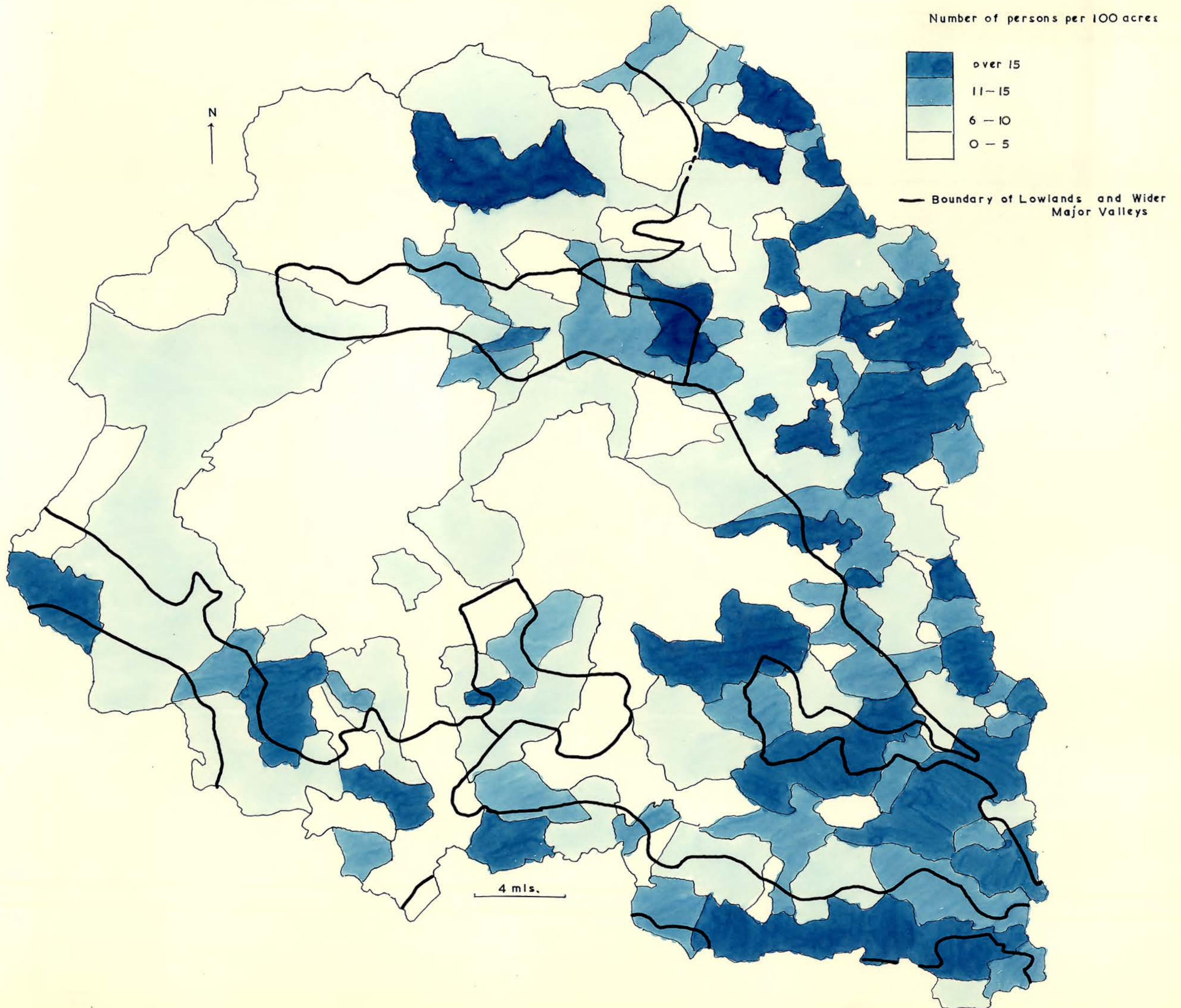




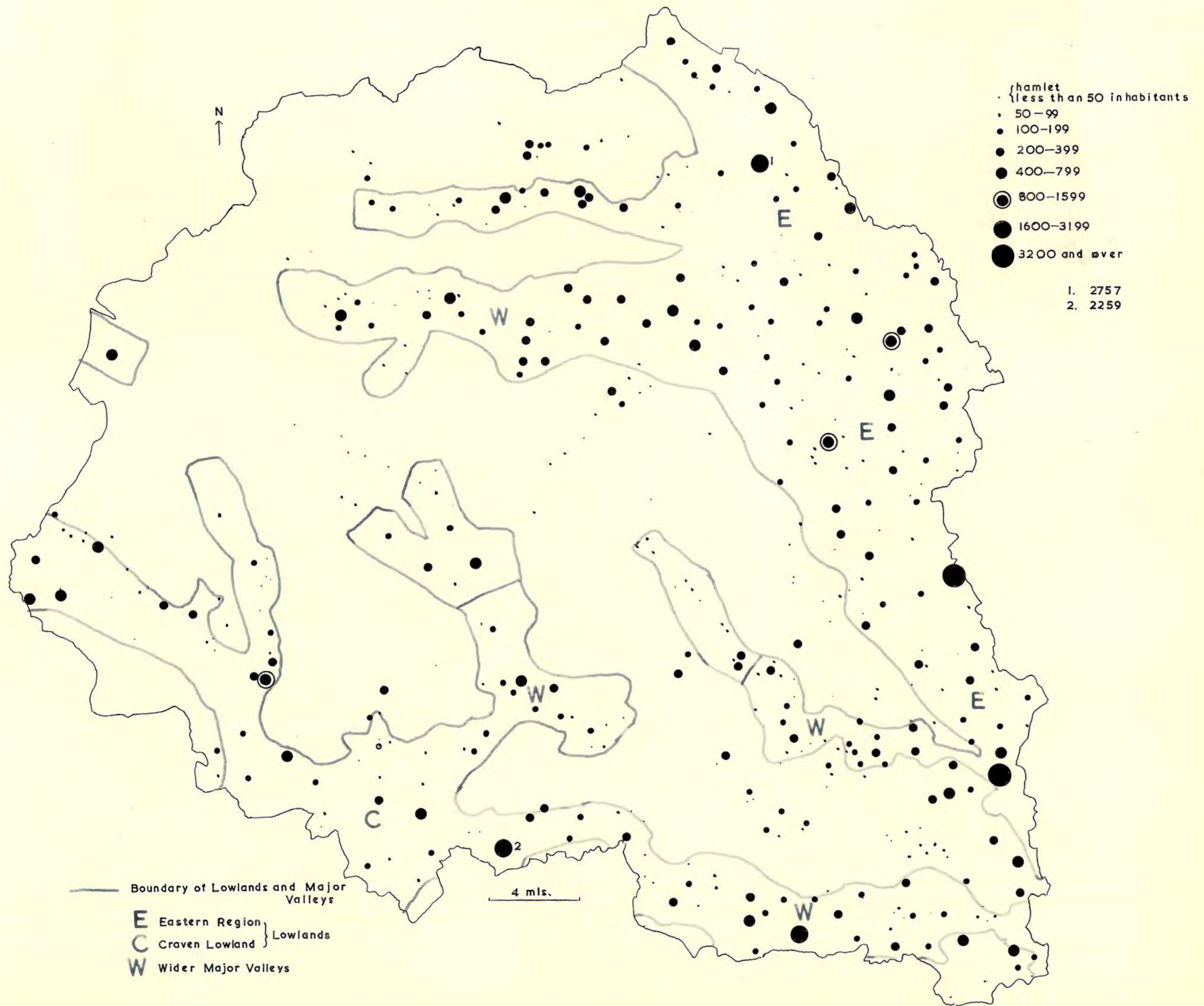
# DENSITY OF POPULATION - 1801

85

STAT. APP. 37







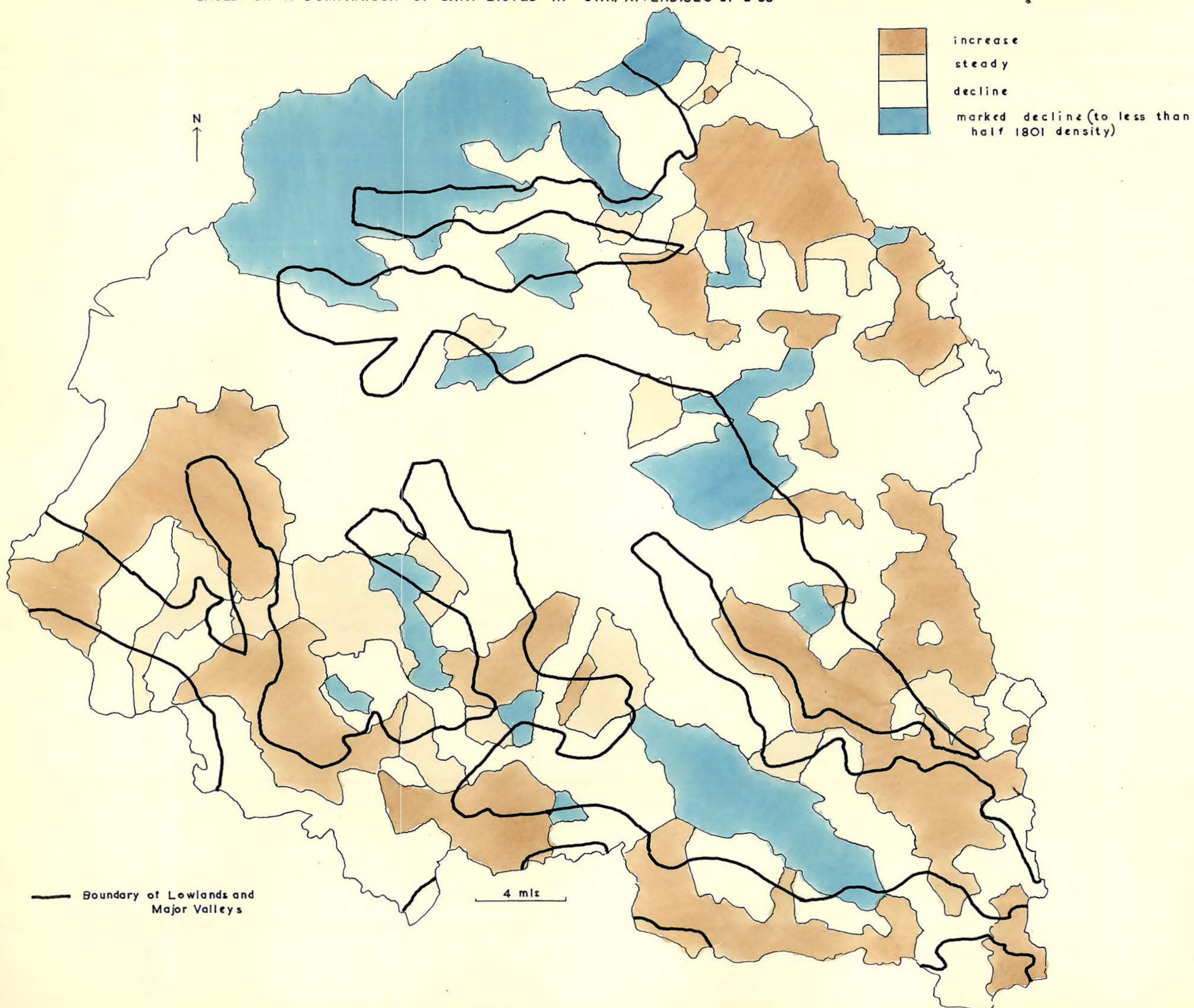






## CHANGES IN THE DENSITY OF POPULATION, 1801 - 1951

BASED ON A COMPARISON OF DATA LISTED IN STAT. APPENDICES 37 &amp; 38

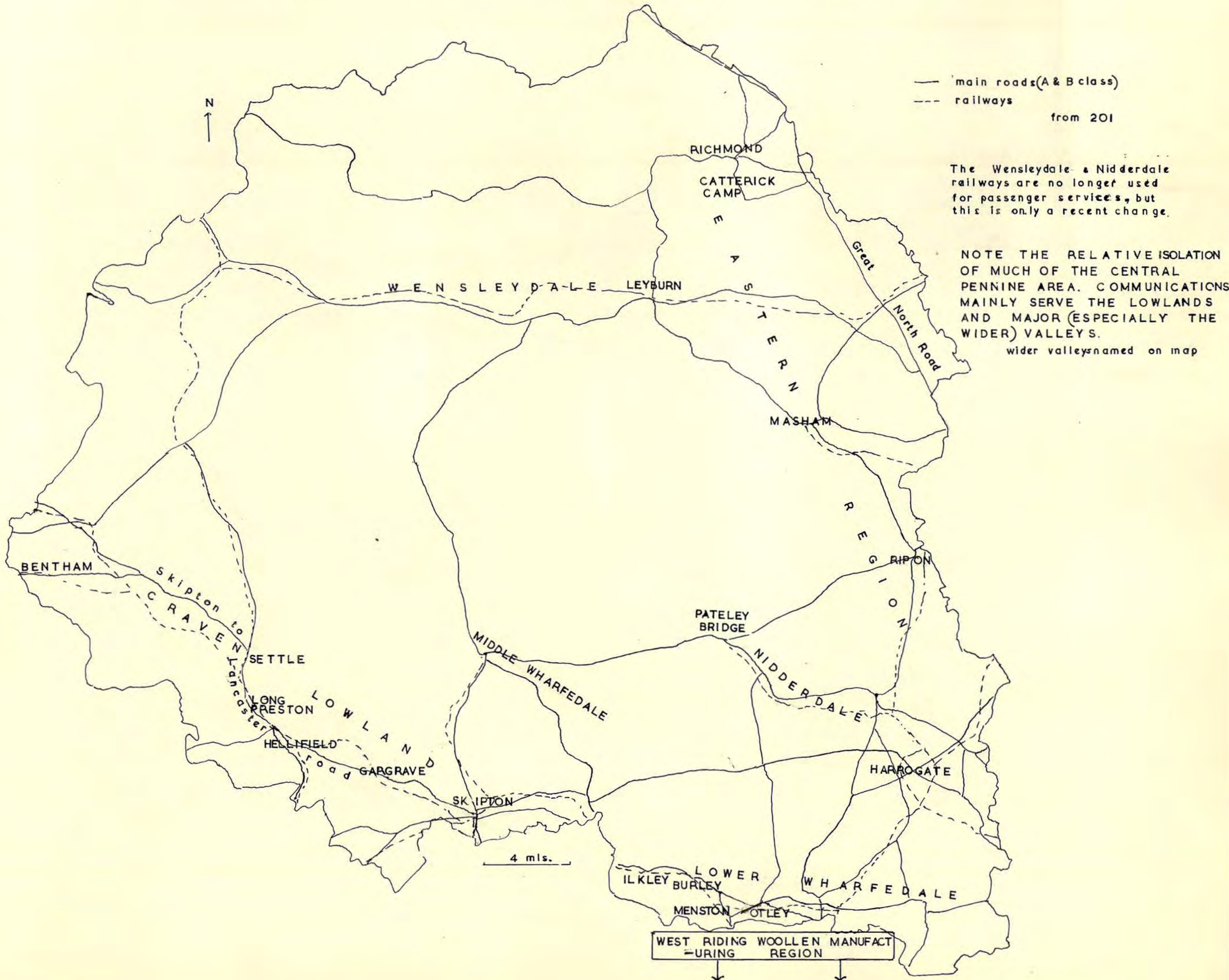




# MODERN MAIN ROADS & RAILWAYS

89

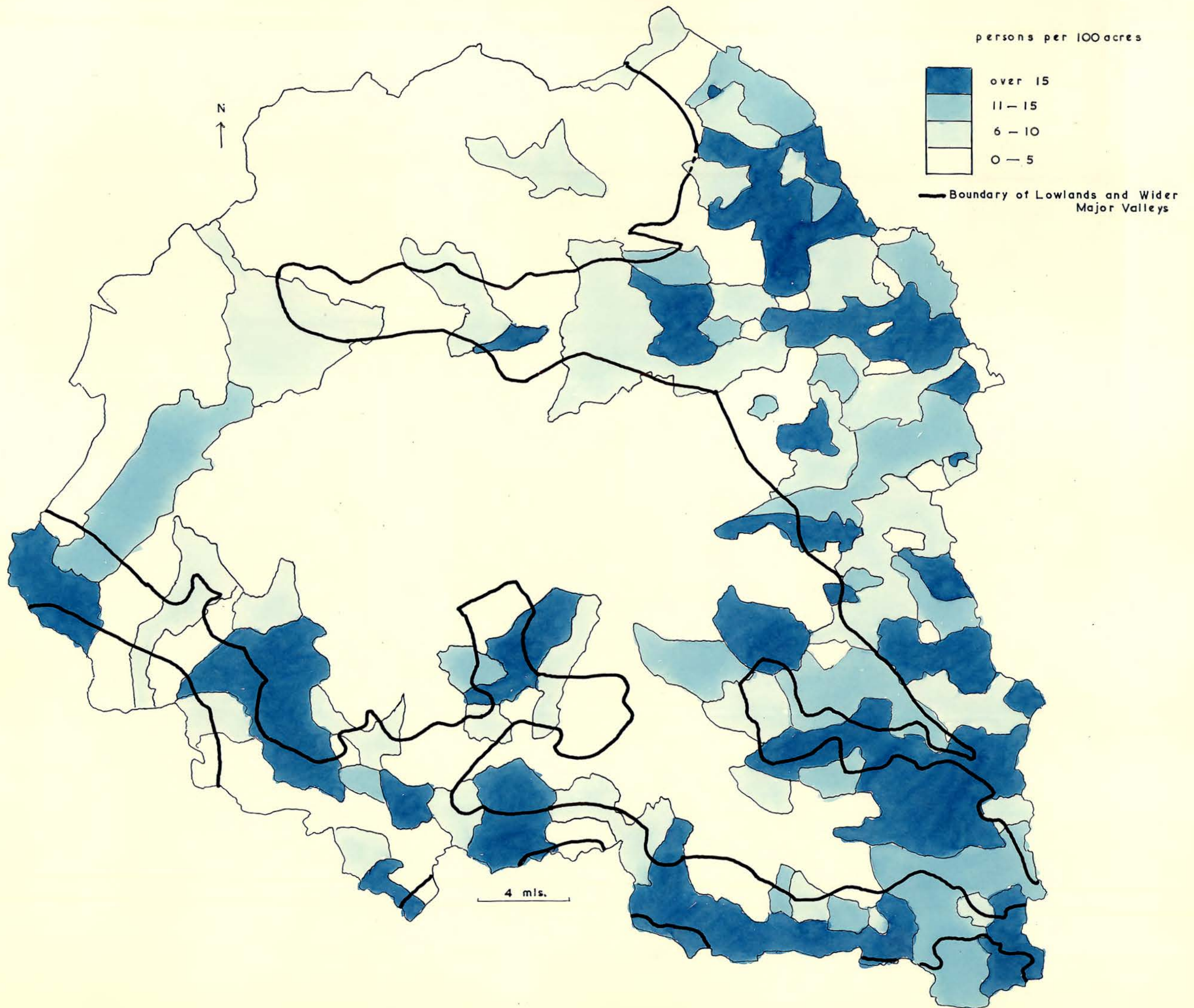
AND KEY TO CERTAIN PARISHES MENTIONED IN THE TEXT WITH REFERENCE TO MAP 88 OPPOSITE



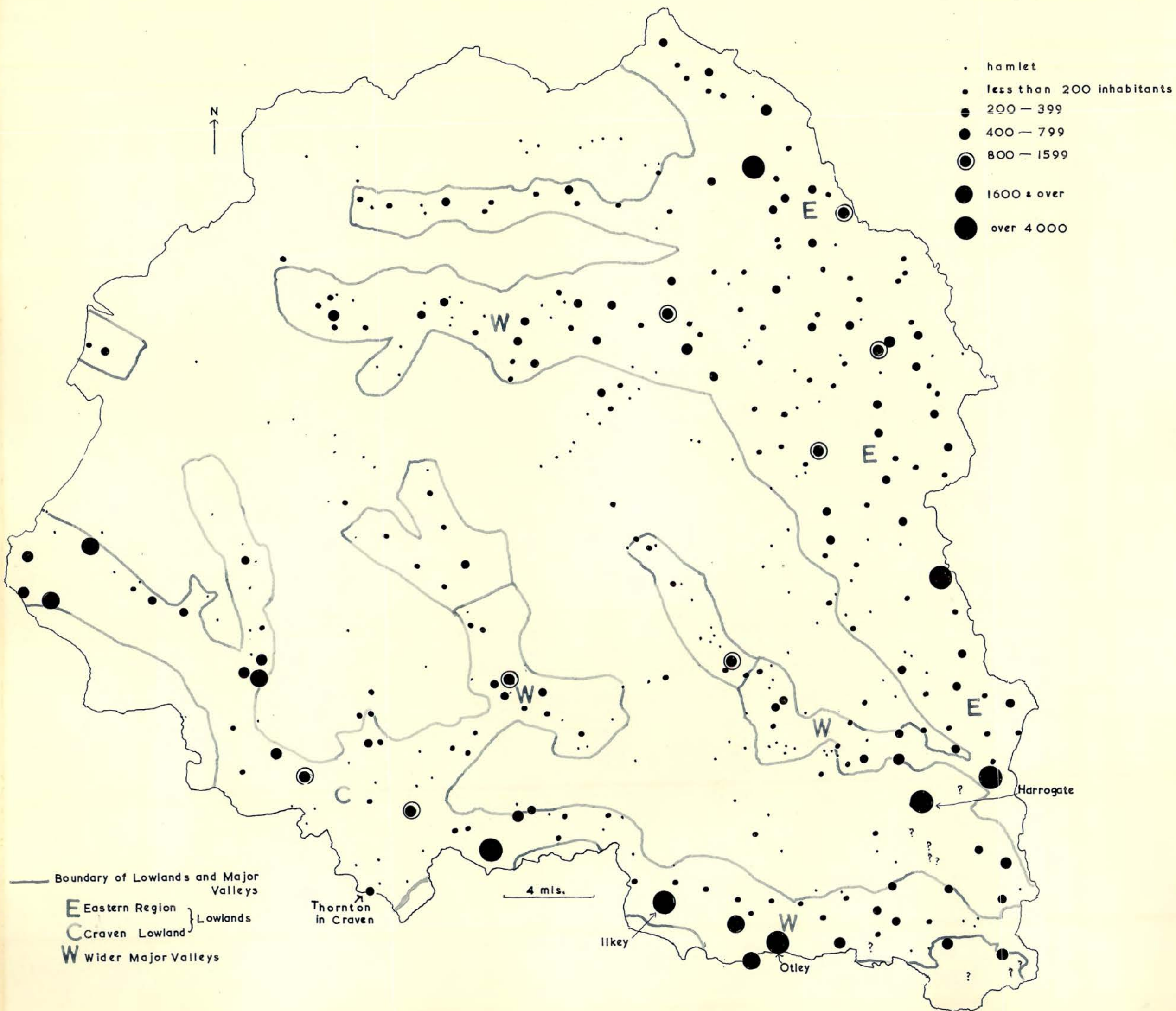


# DENSITY OF POPULATION - 1951

90  
STAT. APP. 38



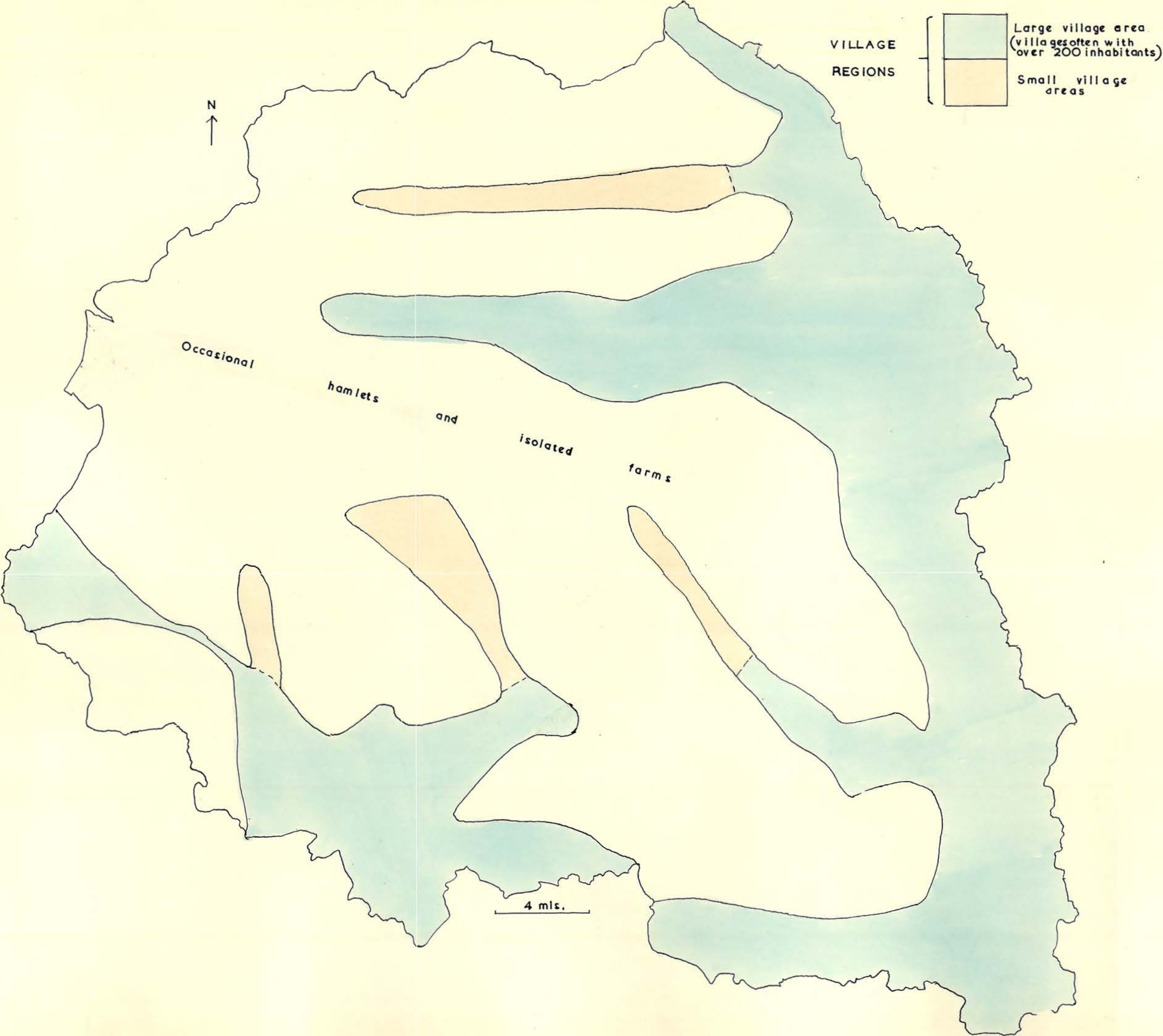






REGIONALISM IN SETTLEMENT - THE PRIMARY DIVISIONS

COMPARE WITH MAP 12 - PHYSICAL DIVISIONS



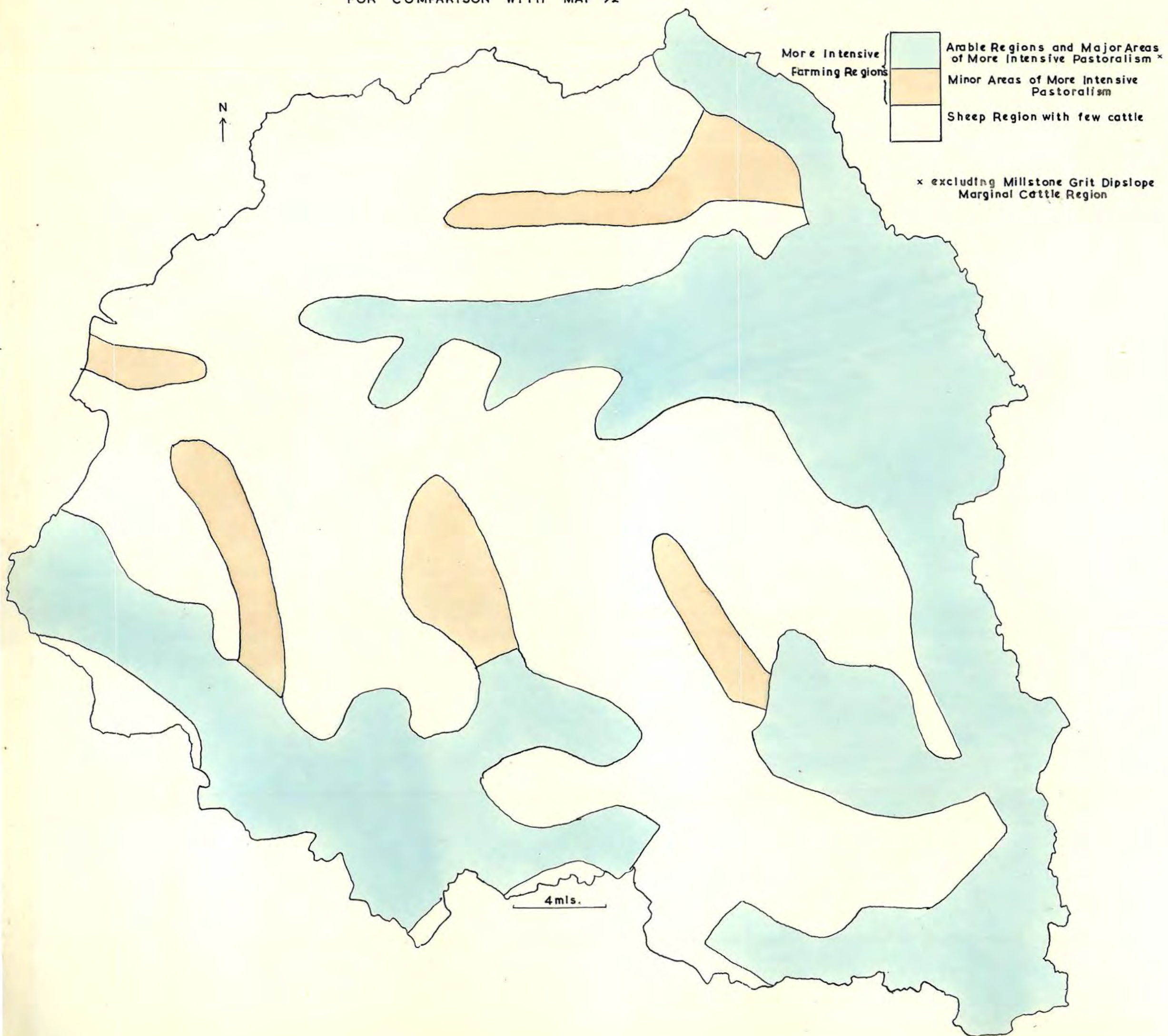


# THE MORE INTENSIVE FARMING REGIONS

FROM MAP 70

93

FOR COMPARISON WITH MAP 92

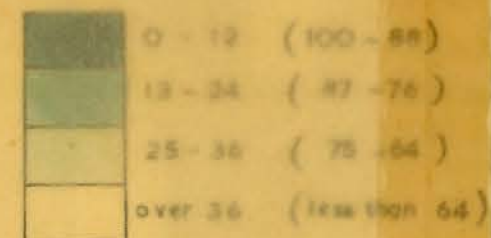




(from Map 92)

DISPERSED SETTLEMENT - 1931

NUMBER OF ISOLATED DWELLINGS  
AS A PERCENTAGE OF TOTAL NUMBER  
OF DWELLINGS IN EACH PARISH



The figure in brackets shows the  
corresponding percentage of the  
total parish dwellings which  
occurs in nucleated settlements



— boundary of  
Large Village Area  
--- boundary of Small Village Areas

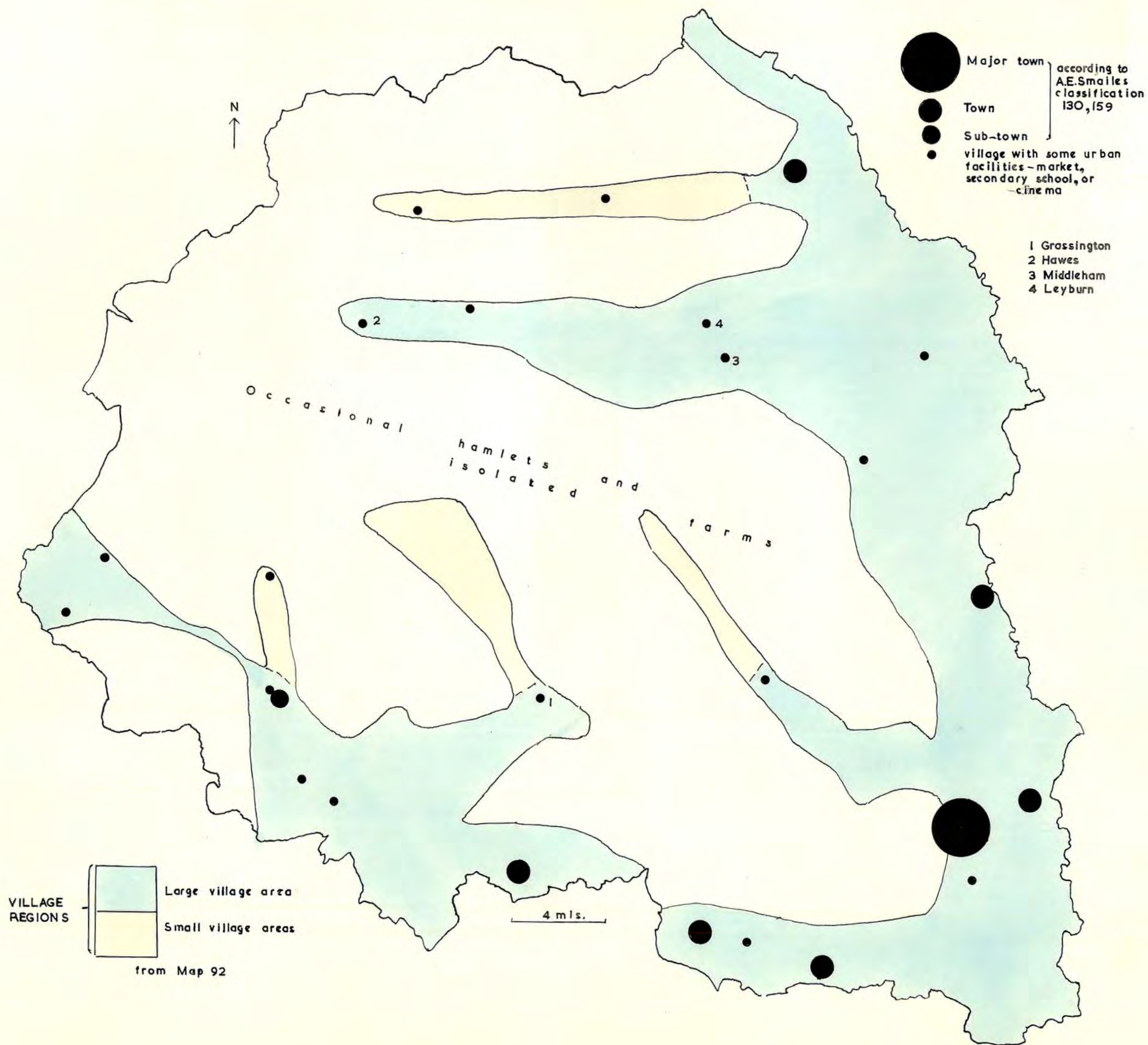
4 mls.



# MAJOR GATHERING CENTRES

95

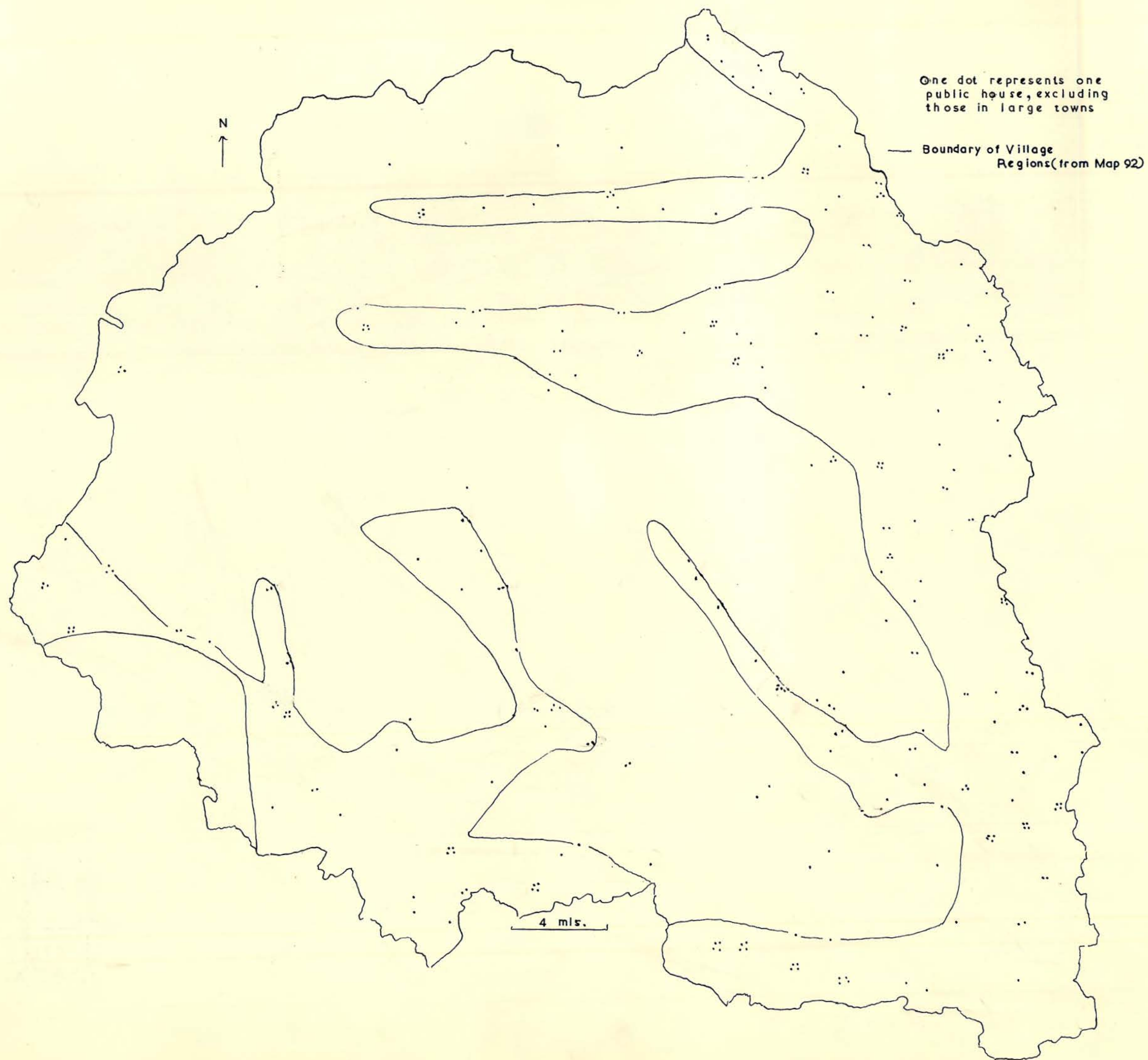
STAT APP 38a



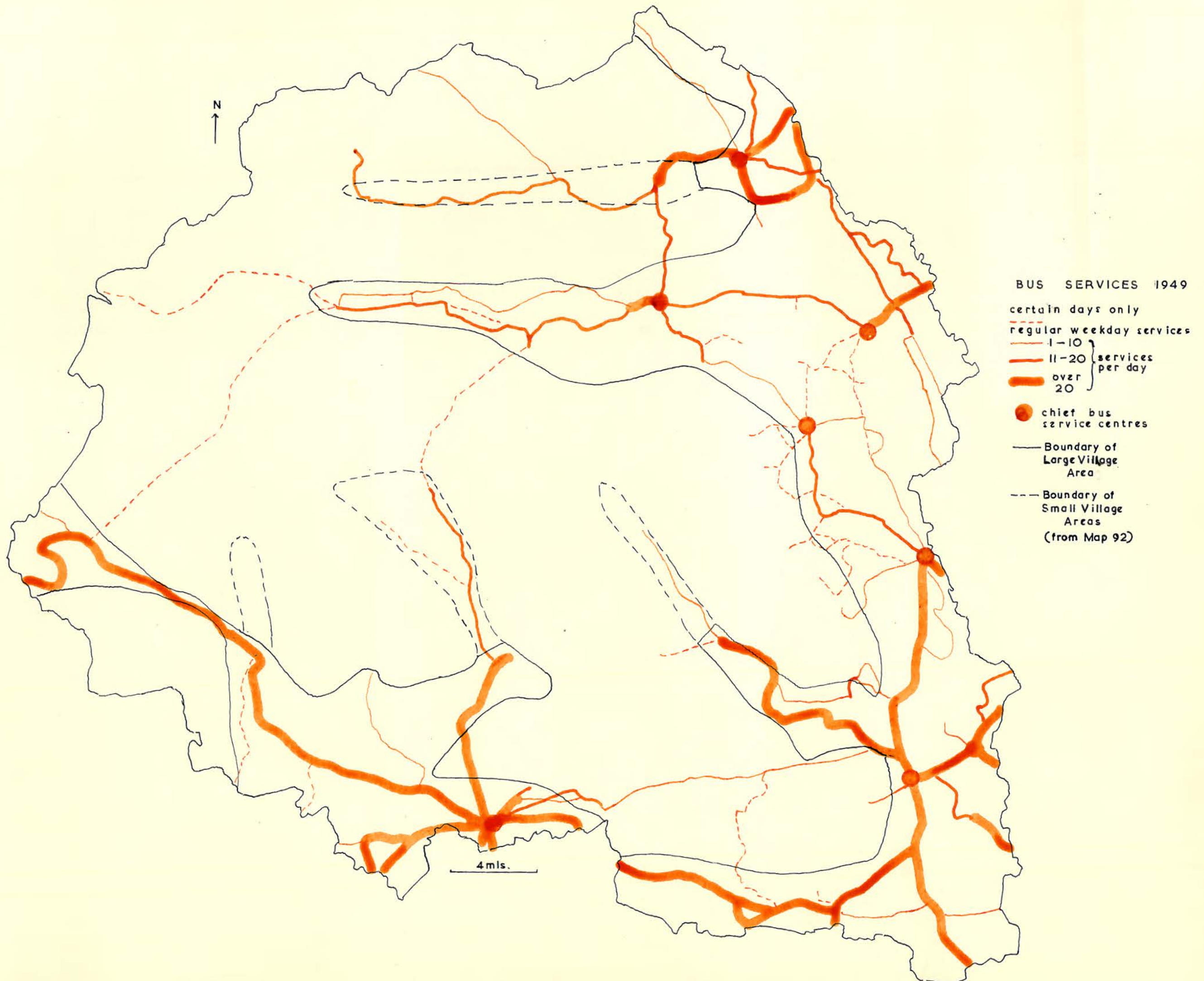












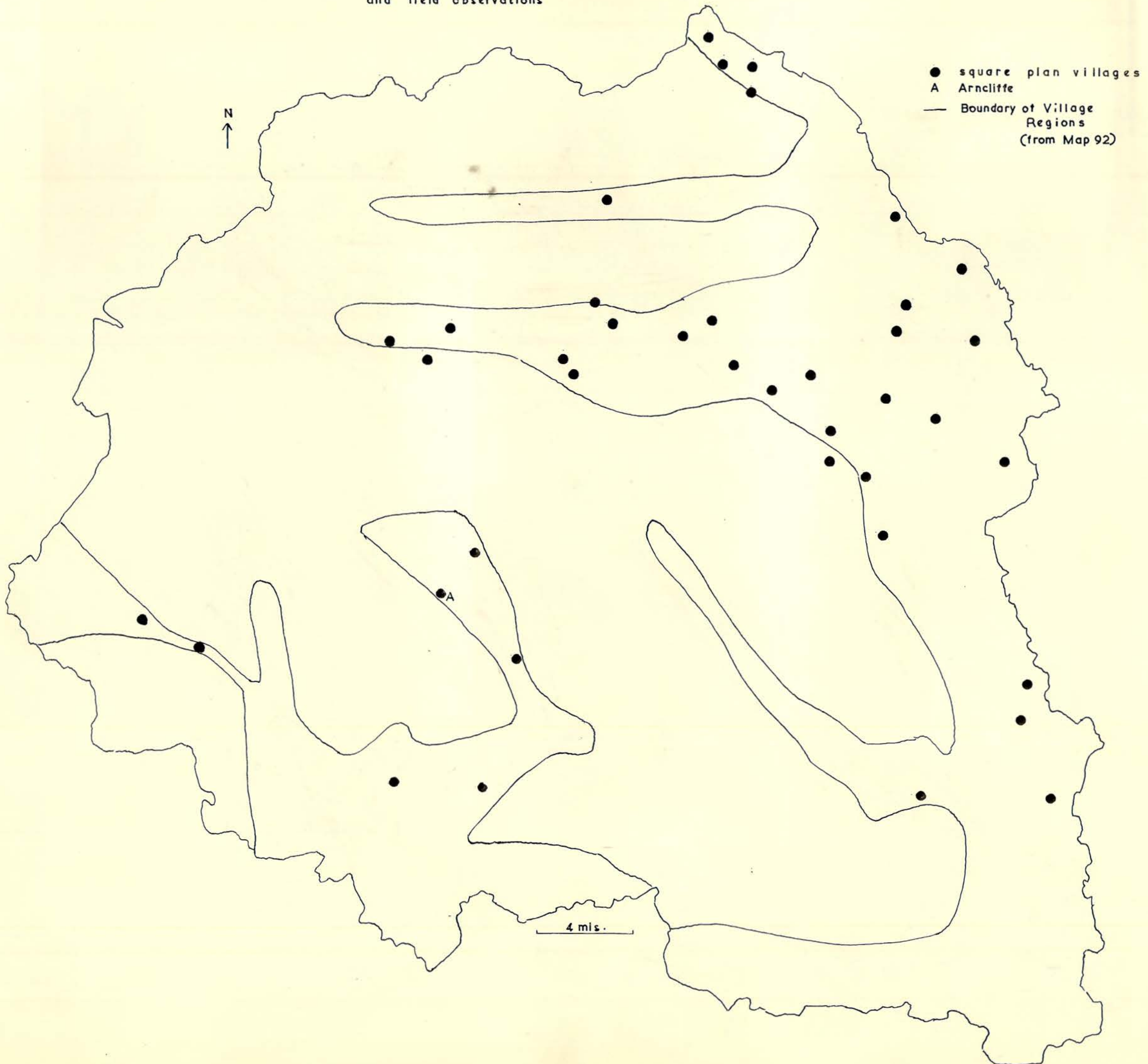


# "SQUARE PLAN" VILLAGES

based on  $2\frac{1}{2}$  inch O.S. maps  
and field observations

99

STAT. APP. 39



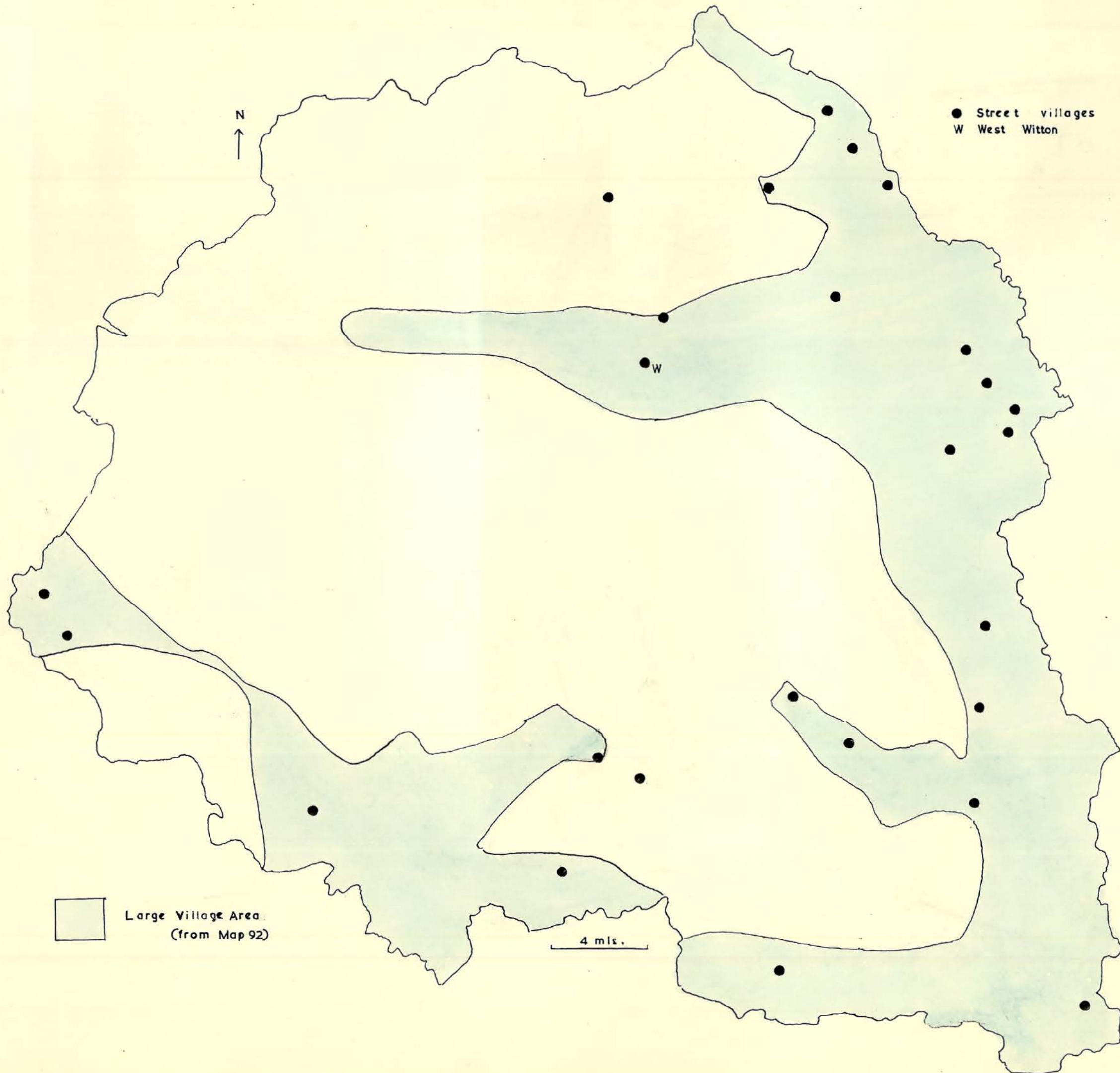


# STREET VILLAGES

based on  $2\frac{1}{2}$  in. O.S. maps  
and field observations

100

STAT. APP. 40

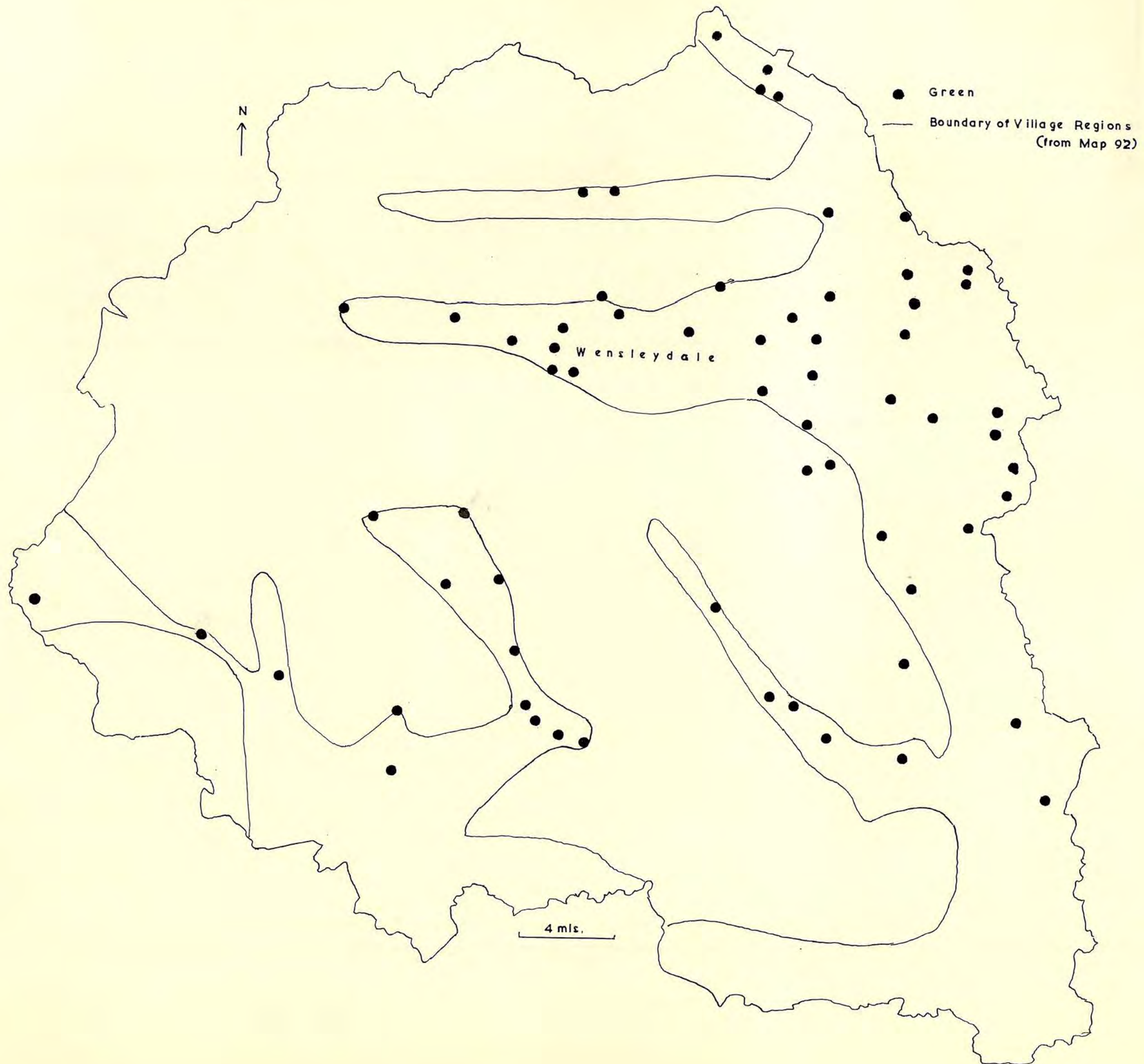




# VILLAGE GREENS

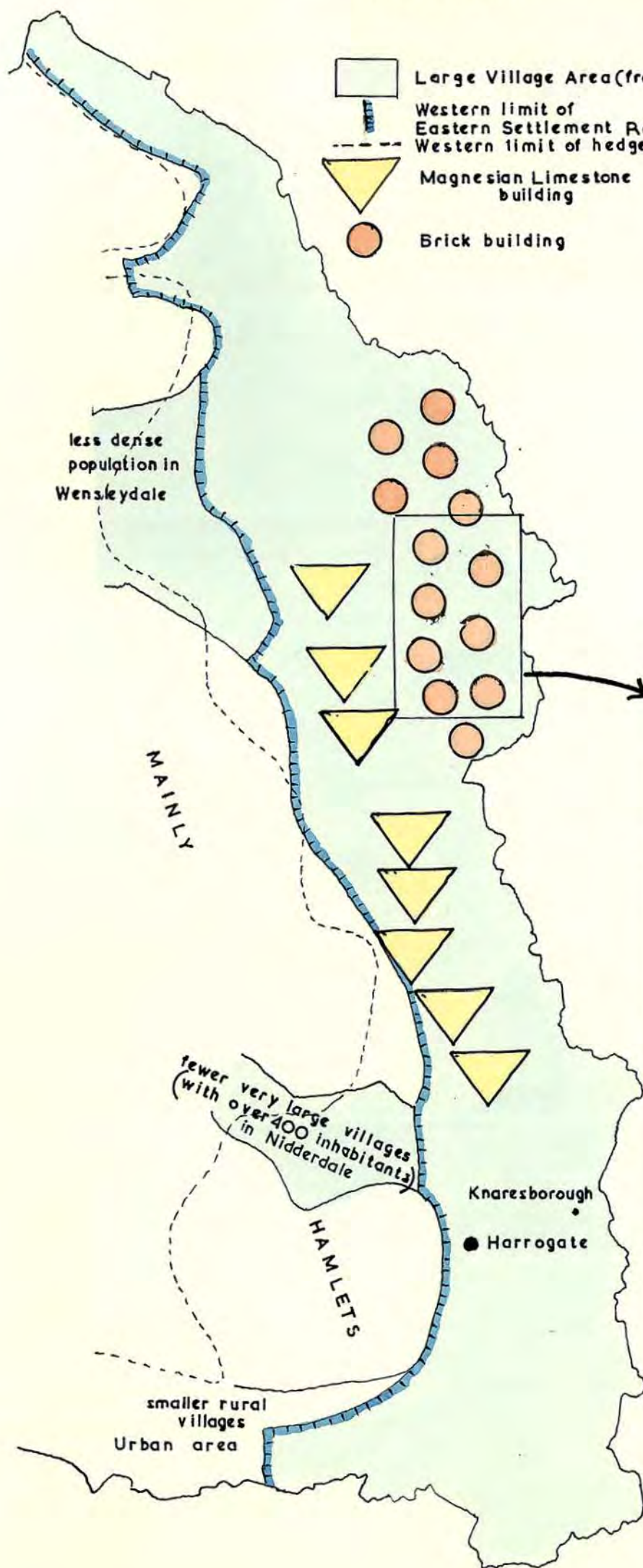
IOI

STAT. APR. 41

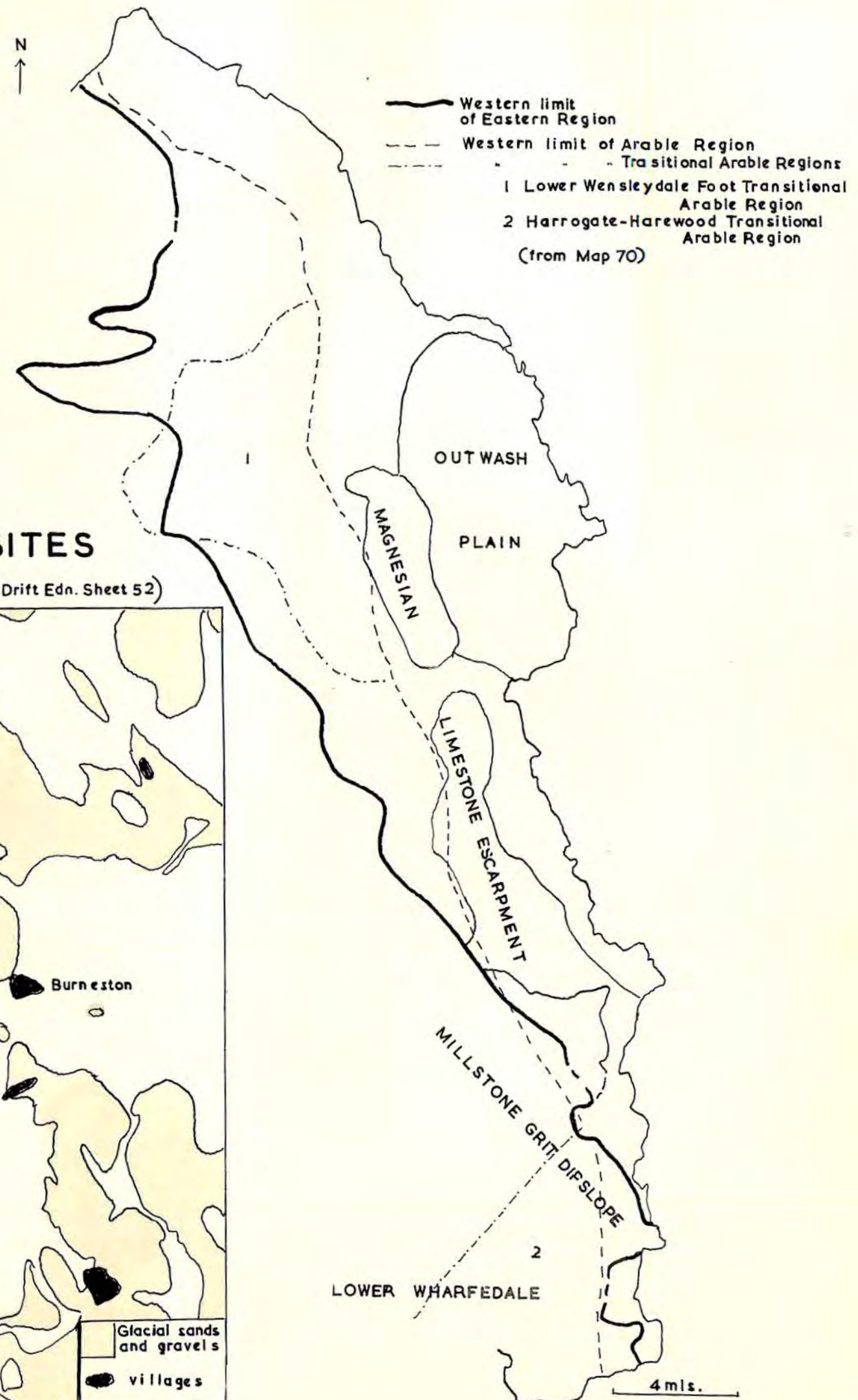




# (a) THE EASTERN SETTLEMENT REGION



# (b) THE PHYSICAL & ECONOMIC BASIS 102



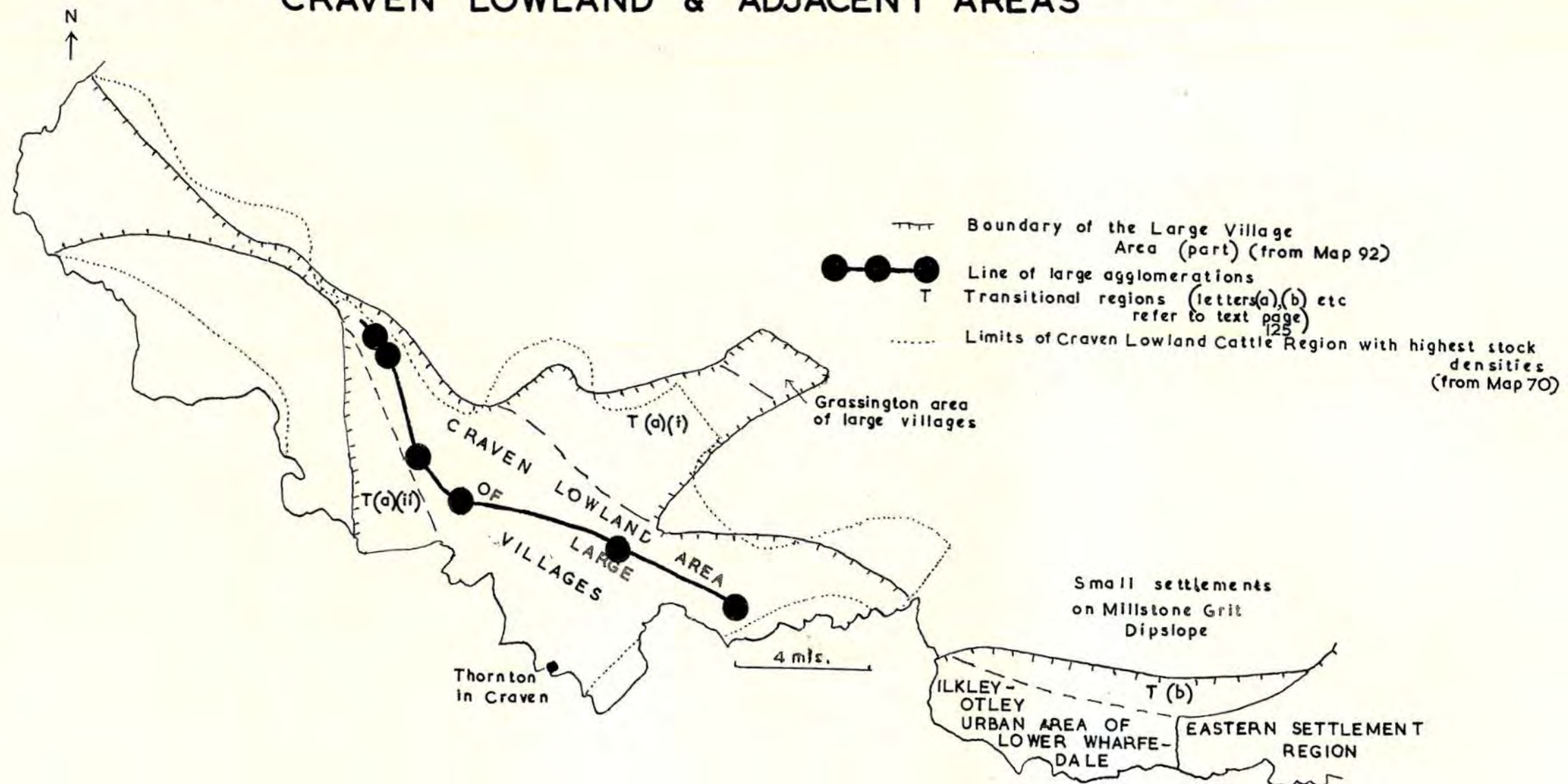
## (c) VILLAGE SITES

(traced from 1 inch Geological Map Drift Edn. Sheet 52)

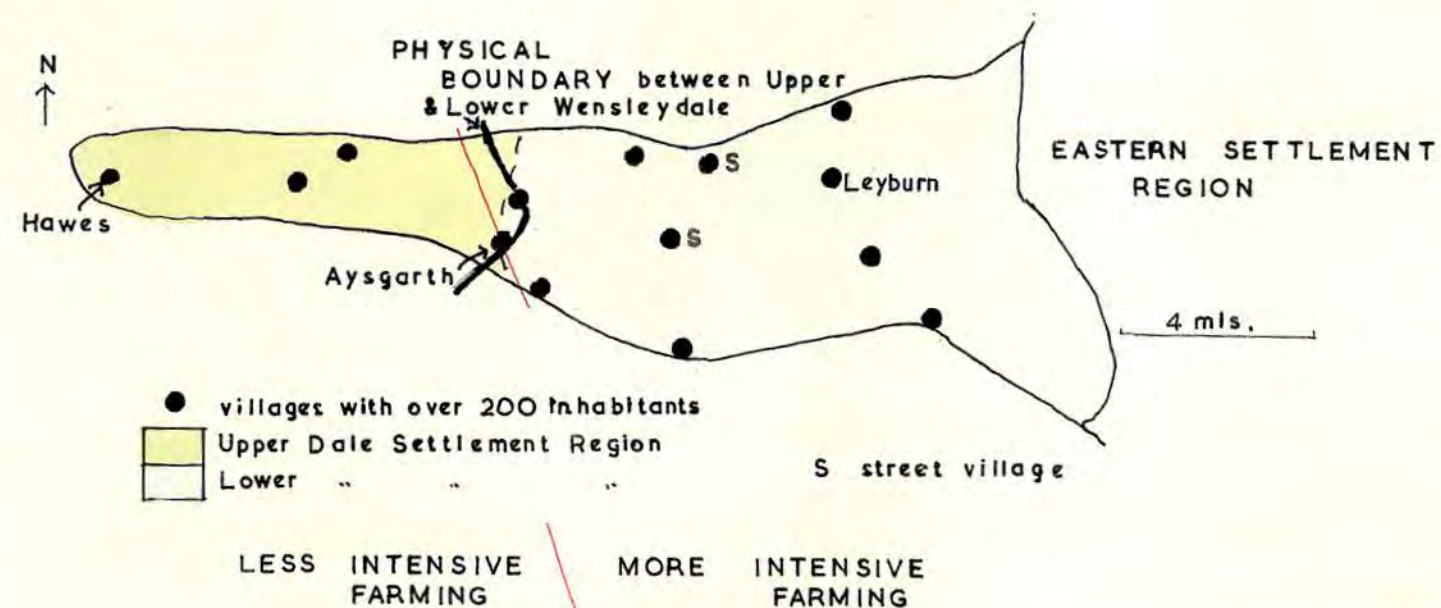




(a) SETTLEMENT REGIONS CORRESPONDING WITH THE  
CRAVEN LOWLAND & ADJACENT AREAS

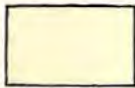
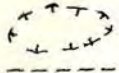


(b) THE LARGE VILLAGE AREA CORRESPONDING WITH WENSLEYDALE

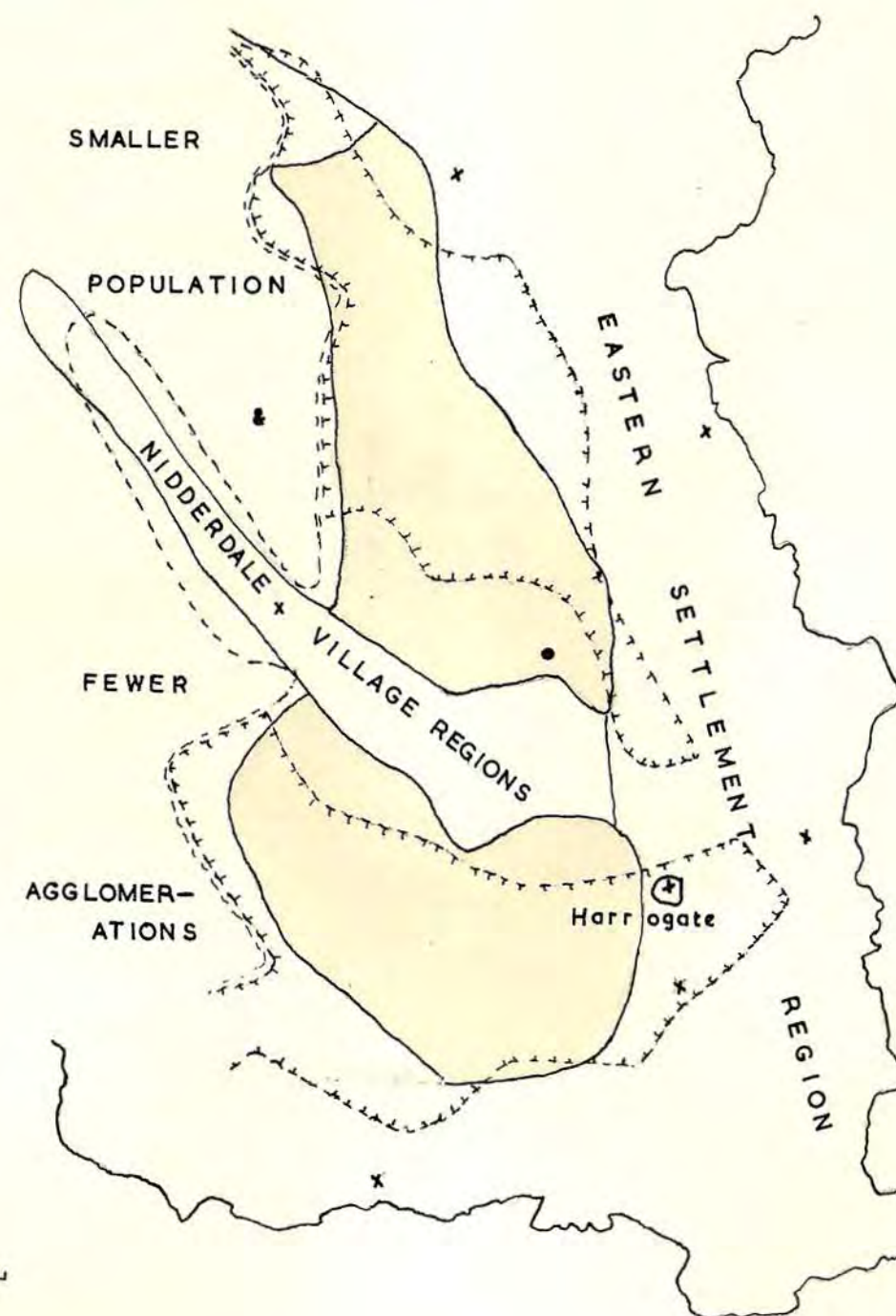
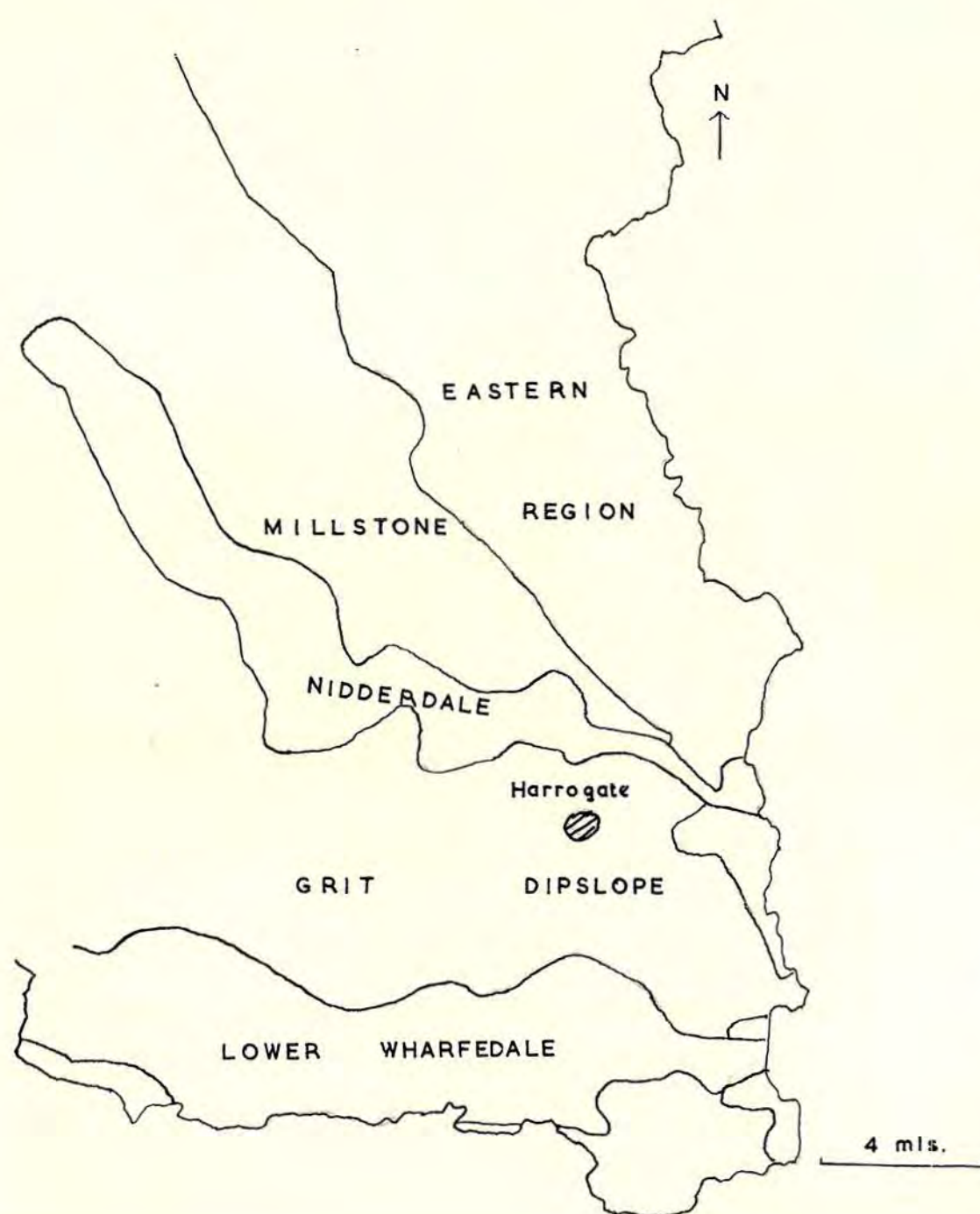




## SETTLEMENT & FARMING

-  Lower Millstone Grit Dipslope Settlement Region ("Hamlets" Region) (from Map 70)
-  Lower Millstone Grit Dipslope Marginal Cattle Region—  
Western limit of cattle farming on an important scale on the Millstone Grit Dipslope (from Map 62)
- x Market 3(150)
- Bishop Thornton

## PHYSICAL DIVISIONS

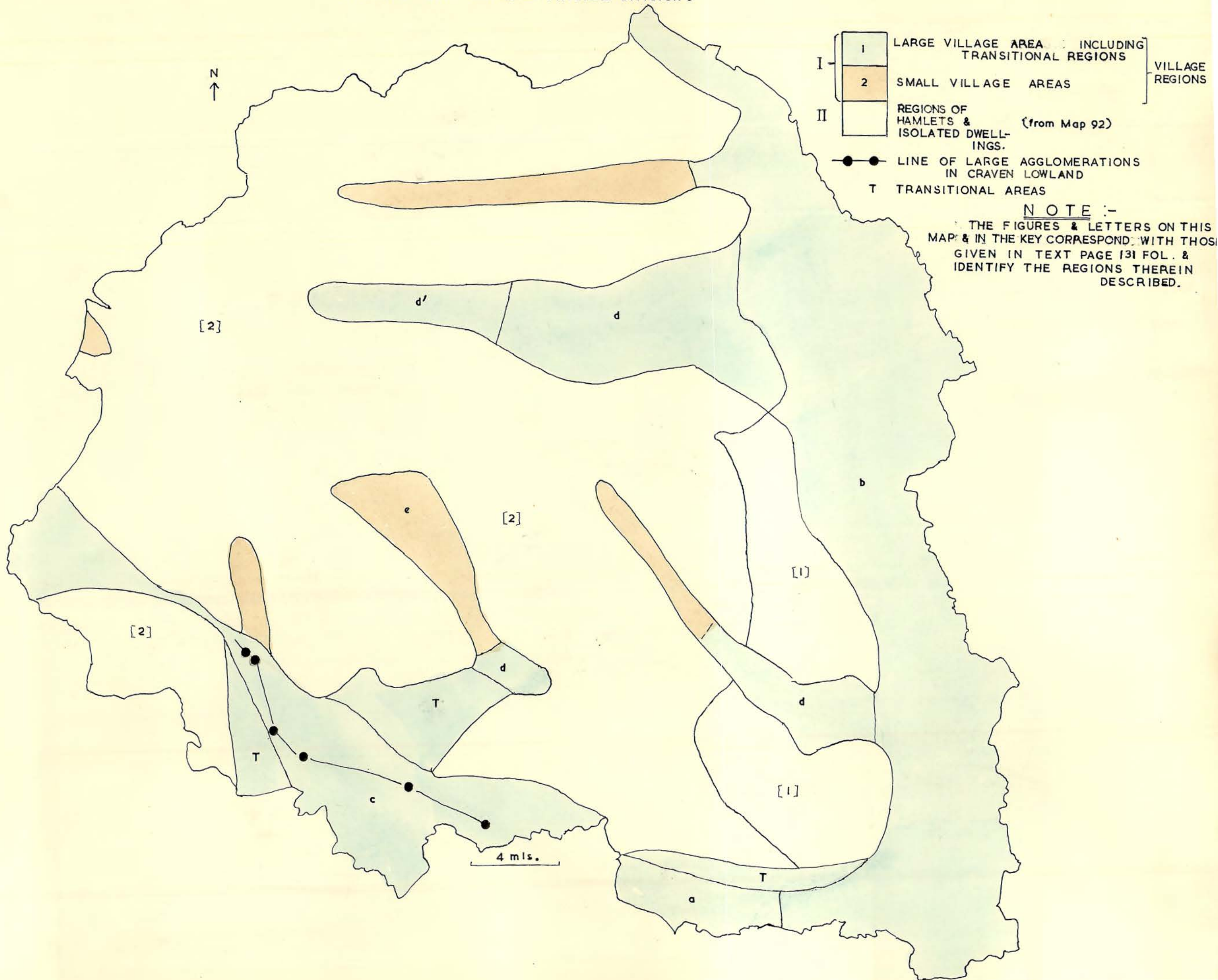




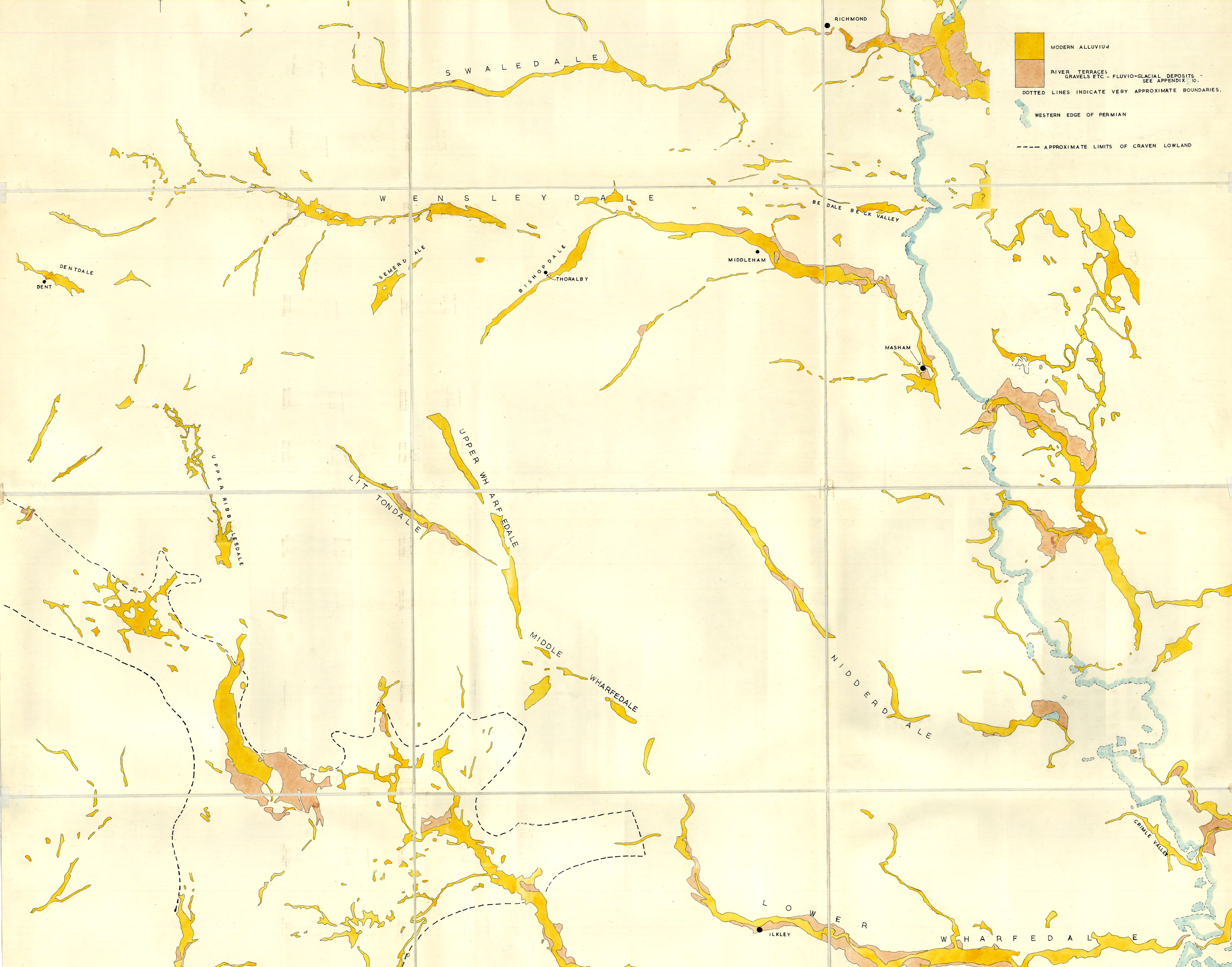
# SETTLEMENT REGIONS (PRESENT DAY)

105

COMPARE WITH MAP 12 — PHYSICAL DIVISIONS







MODERN ALLUVIUM  
RIVER TERRACES  
GRAVELS ETC - FLUVIO-GLACIAL DEPOSITS -  
SEE APPENDIX 10.  
DOTTED LINES INDICATE VERY APPROXIMATE BOUNDARIES.  
WESTERN EDGE OF PERMIAN  
--- APPROXIMATE LIMITS OF CRAVEN LOWLAND

S W A L E D A L E

W E N S L E Y D A L E

B E D A L E B E C K V A L L E Y

D E N T D A L E

S E M E R D A L E

B I S H O P D A L E

T H O R A L B Y

M I D D L E H A M

M A S H A M

U P P E R R I B B I D S D A L E

L I T T L E T O N D A L E

U P P E R W H A R F E D A L E

M I D D L E W H A R F E D A L E

W I D D E R D A L E

C R I M L E V A L L E Y

L O W E R W H A R F E D A L E

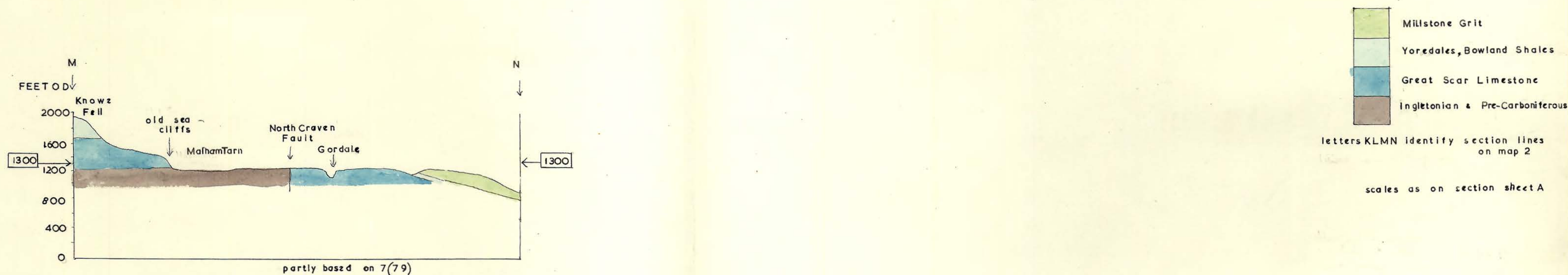
W H A R F E D A L E

I L K L E Y





DRAWN FROM 1 INCH O.S. MAP & 1 INCH GEOLOGICAL MAP, NEW SERIES, SHEET 50.



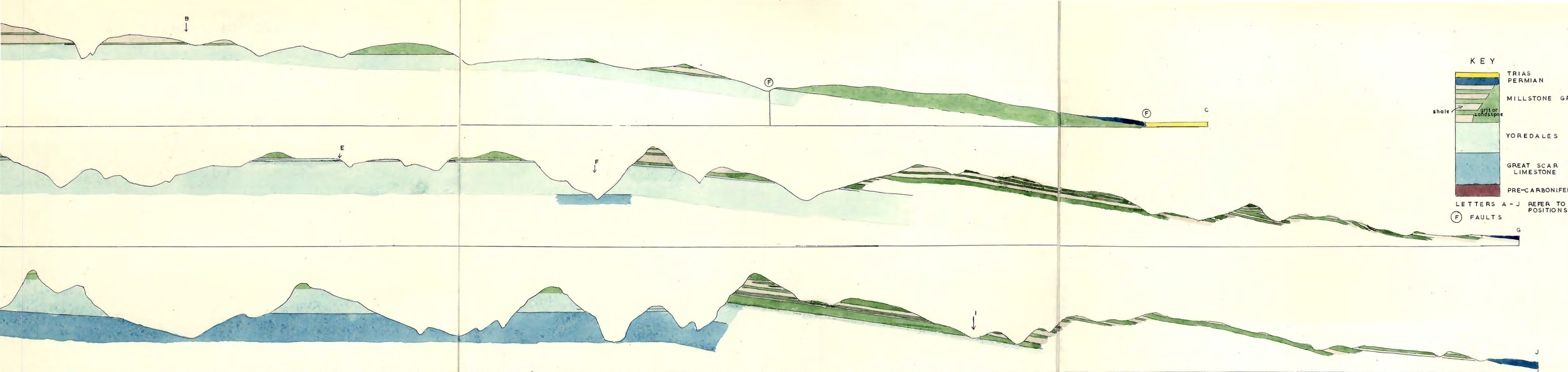
Millstone Grit  
 Yoredales, Bowland Shales  
 Great Scar Limestone  
 Ingletonian & Pre-Carboniferous

letters KLMN identify section lines on map 2

scales as on section sheet A

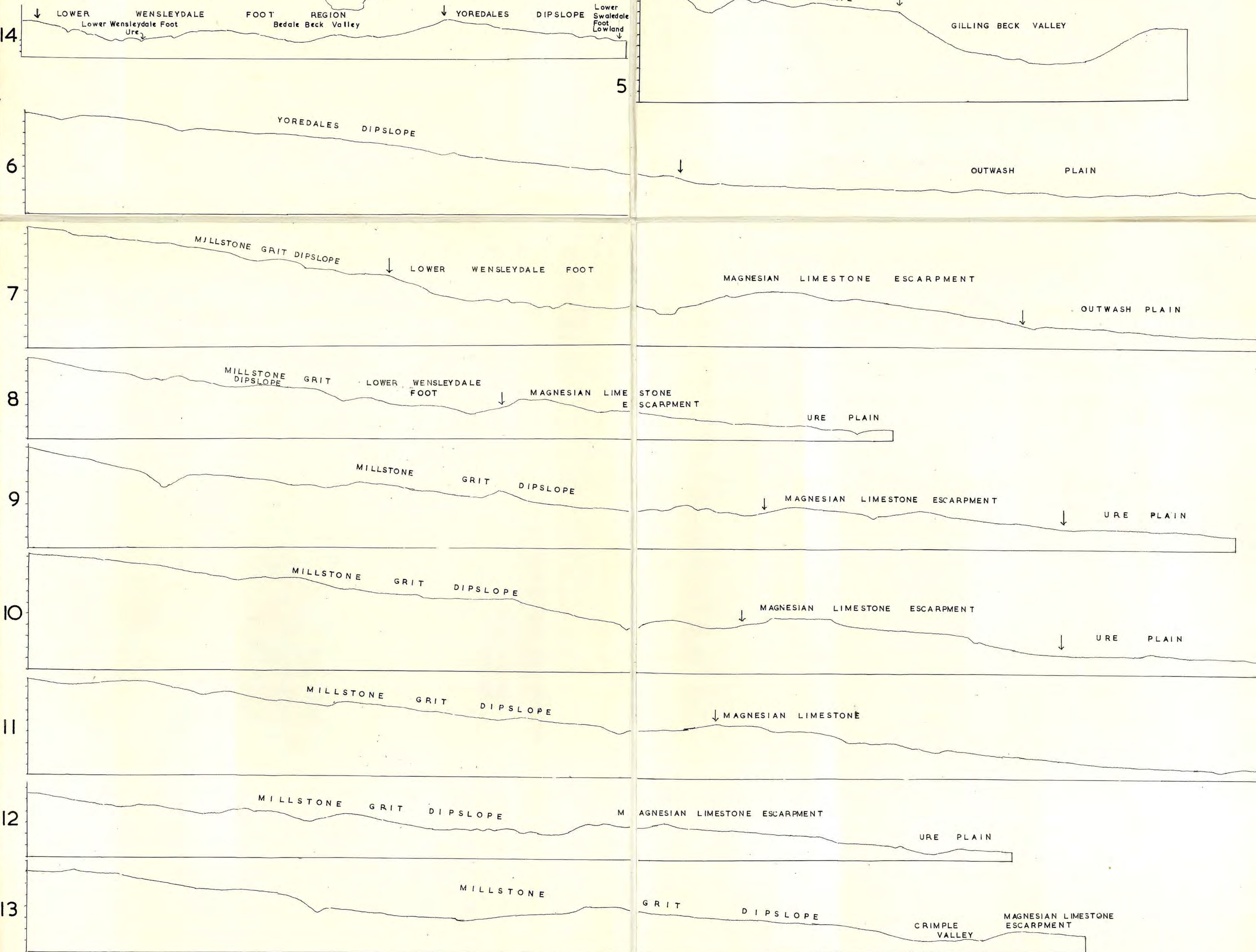
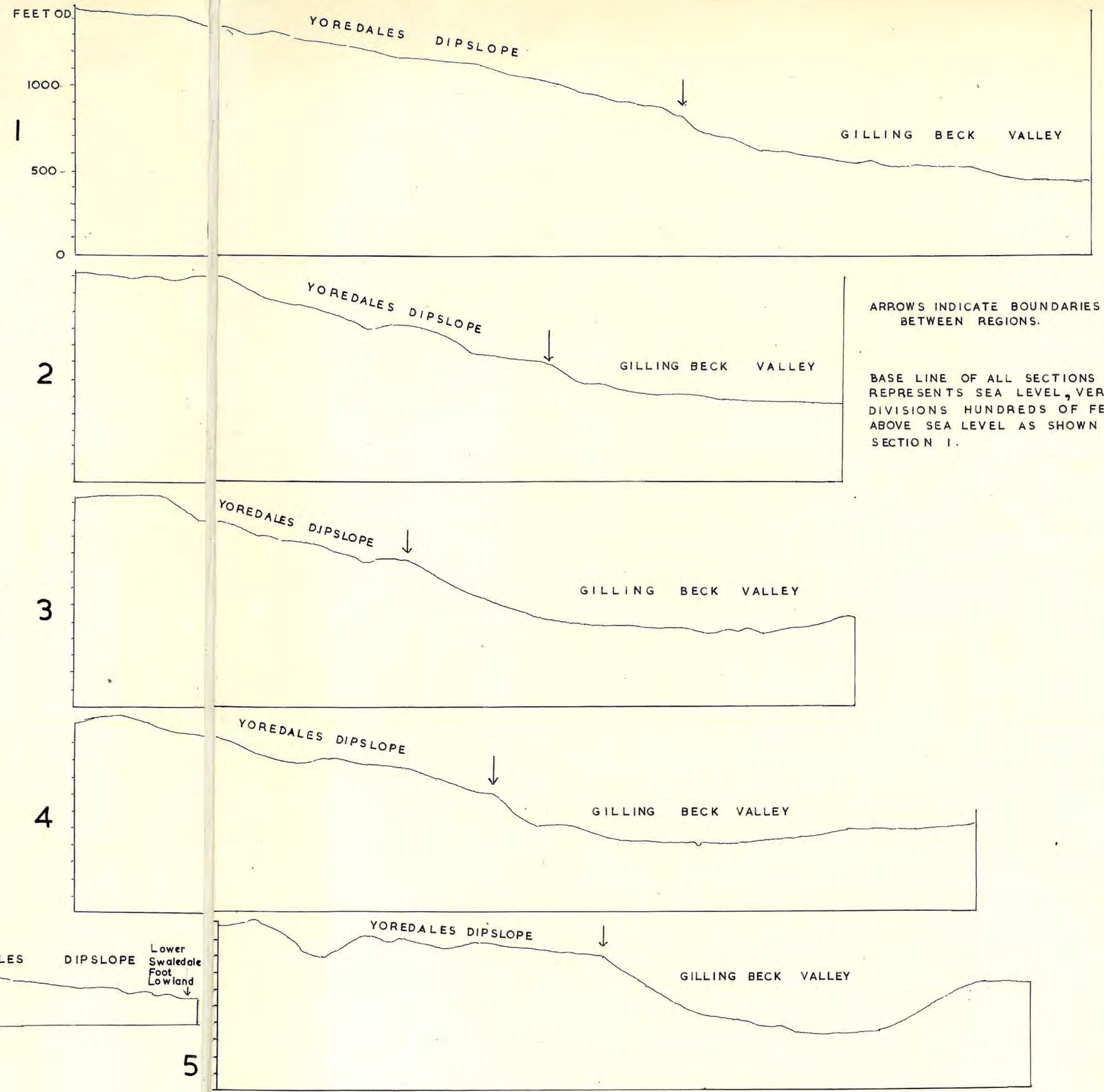
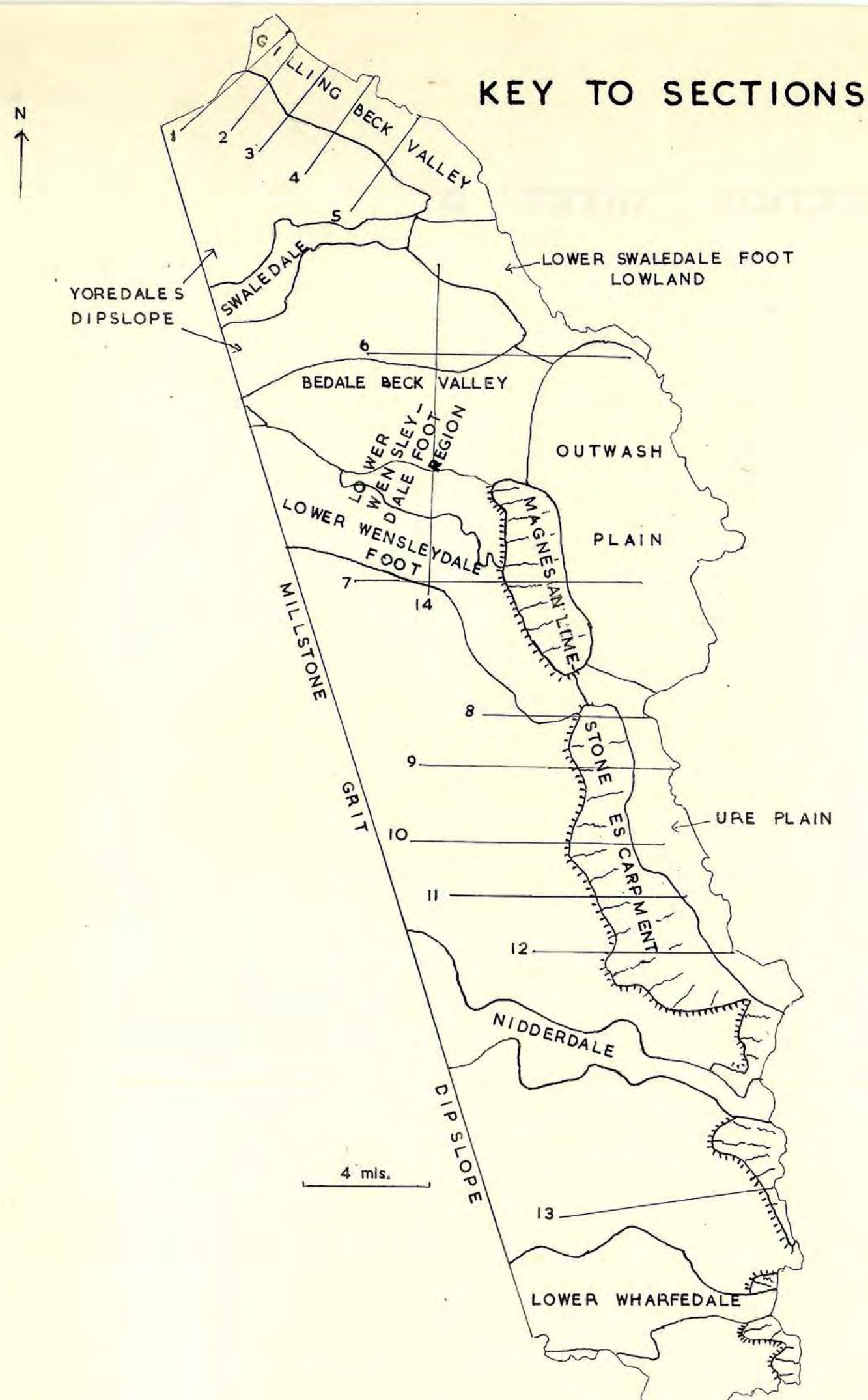
## SECTIONS SHOWING THE 1300 FOOT EROSION SURFACE AND STRUCTURE OF THE CRAVEN HIGHLANDS





SECTIONS ACROSS THE CENTRAL PENNINES SHOWING GEOLOGICAL STRUCTURE & THE 2000 FOOT SUMMIT PLANE



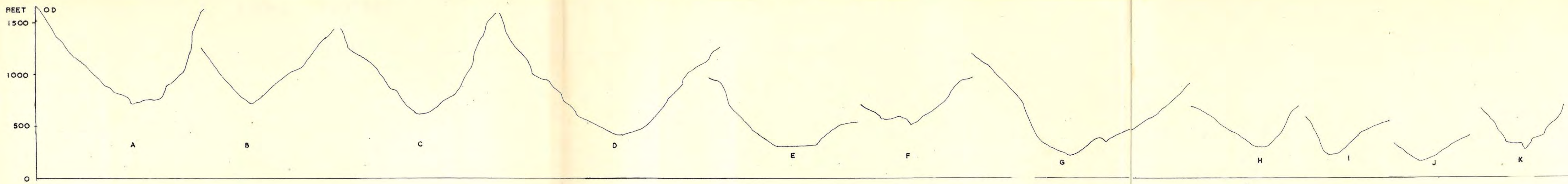


THE EASTERN MARGINS

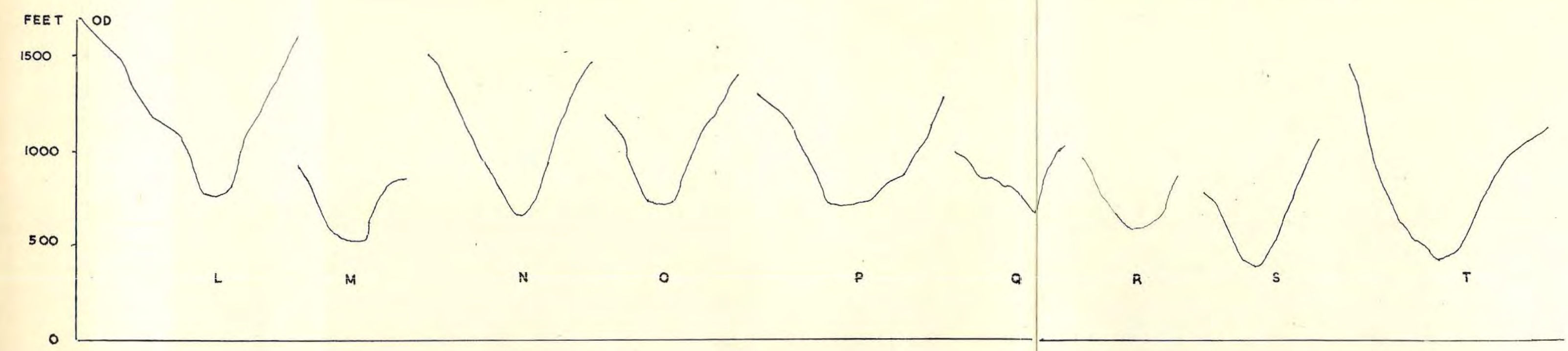
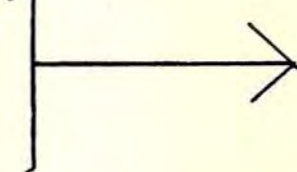
SECTIONS 1-13 HORIZ. SCALE  $2\frac{1}{2}$  INCHES TO 1 MILE  
 VERT. SCALE  $\frac{1}{8}$  INCH TO 100 FEET. VERT. EXAG. 5X  
 SECTION 14 HORIZ. SCALE 1 INCH TO 1 MILE.  
 VERT. SCALE  $\frac{1}{10}$  INCH TO 100 FEET. " " "  
 FROM  $2\frac{1}{2}$  INCH & 1 INCH O.S. MAPS, GEOLOGICAL SURVEY MAPS,  
 NEW SERIES, 41, 52, 62, 70.



# CROSS PROFILES OF WIDER MAJOR VALLEYS



## CROSS PROFILES OF NARROWER MAJOR VALLEYS

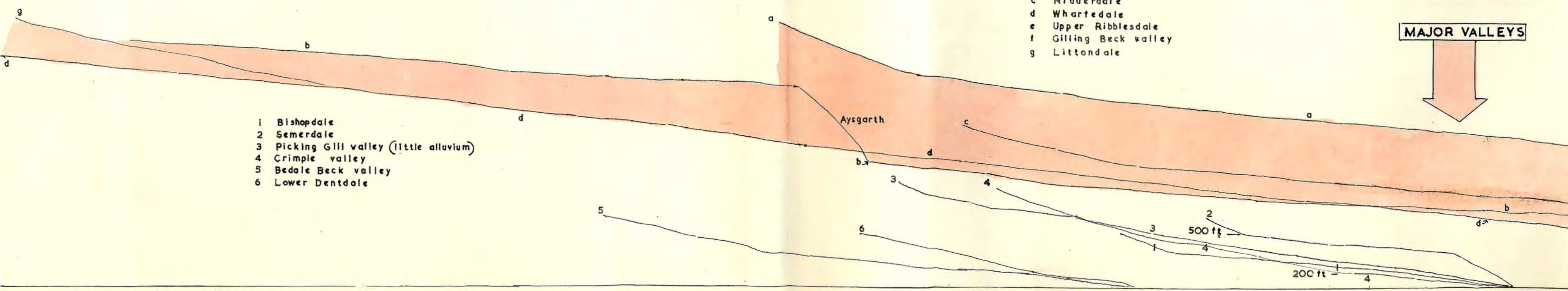


## THALWEGS DRAWN ALONG THE PENNINE VALLEYS

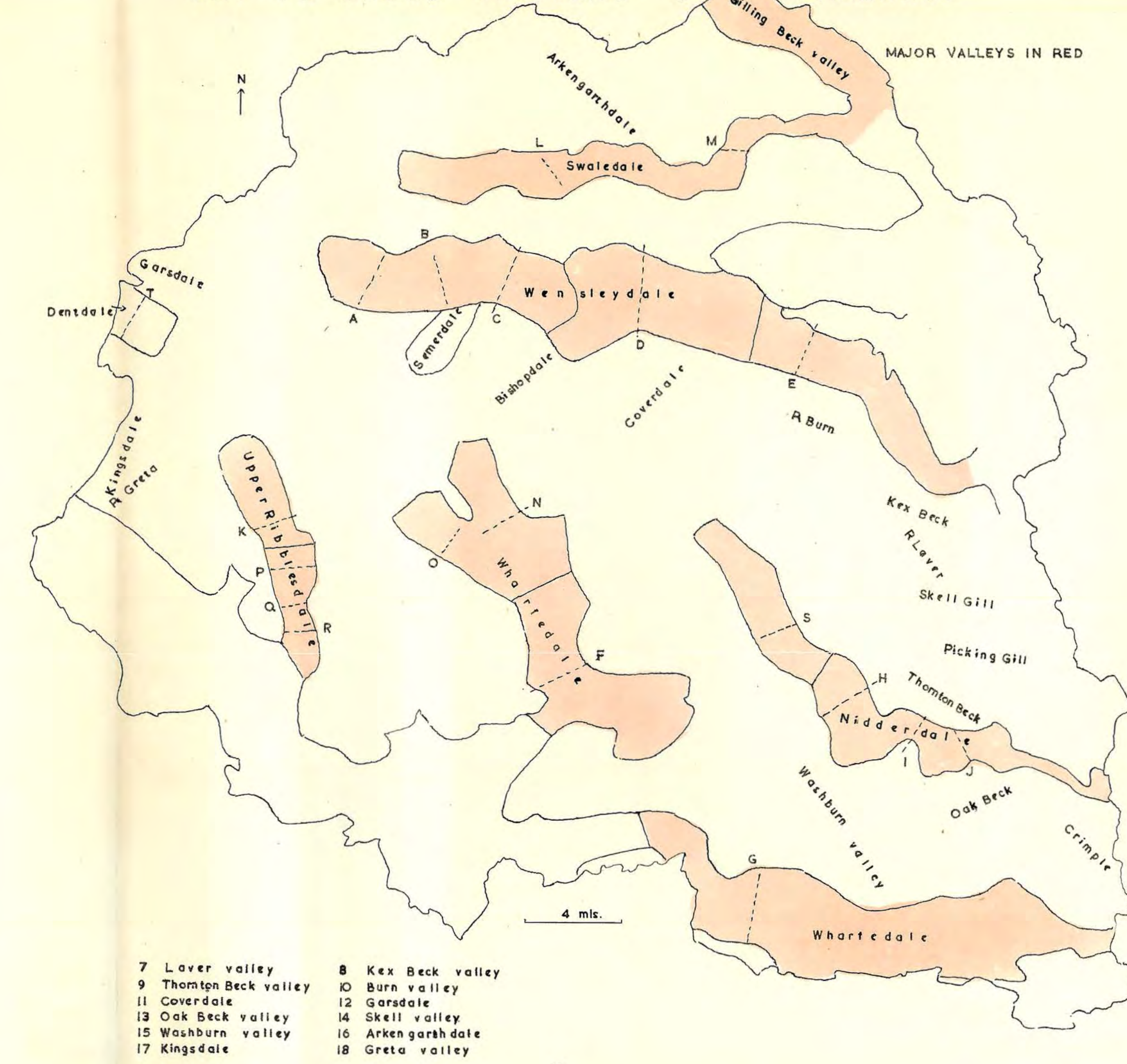
NOTE THE MORE GENTLE GRADIENTS OF THE MAJOR VALLEYS (COLOURED RED) AND VALLEYS NUMBERED 1-6

- a Swaledale
- b Wensleydale
- c Nidderdale
- d Wharfedale
- e Upper Ribblesdale
- f Gilling Beck valley
- g Liddisdale

MAJOR VALLEYS



## KEY TO CROSS PROFILES & THALWEGS



- 7 Laver valley
- 8 Kex Beck valley
- 9 Thornton Beck valley
- 10 Burn valley
- 11 Coverdale
- 12 Garsdale
- 13 Oak Beck valley
- 14 Skell valley
- 15 Washburn valley
- 16 Arkengarthdale
- 17 Kingsdale
- 18 Greta valley

